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PATENT

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--XIII WW VM Jarre A. Walker

April 23, 2004 Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex Parte Gassenmeier et al. Appeal No. _____

Applicant:

Gassenmeier et al.

Serial Number:

09/800,624

Filed:

March 7, 2001

Confirmation No.:

7473

Art Unit: Examiner:

1761

Title:

Wong, Leslie A.

ORGANOLEPTIC COMPOSITIONS: USE OF 3-MERCAPTO

ALKANOIC ACID ESTERS AS FLAVOR INGREDIENTS

Attorney Ref. No.:

GRISA-710

Cincinnati, Ohio 45202

April 23, 2004

Mail Stop Appeal Brief - Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL OF REPLY TO EXAMINER'S ANSWER

Attached are the following documents:

- Reply to Examiner's Answer;
- In re Shetty, 195 USPQ 753 (CCPA 1977);
- Kloster Speedsteel AB v. Crucible Inc., 230 USPQ 81 (Fed Cir 1986);
- In re Rijckaert, 28 USPQ2d 1955 (Fed Cir 1993); and
- In re Spormann and Heinke, 150 USPQ 449 (CCPA 1966).

Appellant does not believe there is any fee due with this transmission.

However, the Examiner is authorized to charge any such fee to Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

Beverly A. Lyman, Ph.D.

Reg. No. 41,961

2700 Carew Tower 441 Vine Street Cincinnati, Ohio 45202 513 241 2324 513 421 7269 facsimile

APR 2 7 2004 95

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Jane A. Walker

April 23, 2004 Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex Parte Gassenmeier et al. Appeal No. _____

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Cincinnati, Ohio 45202

April 23, 2004

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REPLY TO EXAMINER'S ANSWER

This is a reply to the Examiner's Answer to Appellants' Brief on Appeal, dated April 8, 2004 (Paper No. 0404).

The Examiner states "The observation of an inherent characteristic

cannot be basis [sic] for patentability", citing *In re Best* 195 USPQ 430 and *In re Jones* 1941 CD 686 (applicant is not familiar with the "CD" reference and believes the Examiner miscited *In re Jones*).

Applicants respectfully disagree with the Examiner's inherency rejection. The pending claims are rejected under 35 U.S.C. § 103(a) as obvious. However, the inherency of an advantage and its obviousness are entirely different questions. That which may be inherent is not necessarily known, and obviousness cannot be predicated on what is unknown. *In re Shetty* 195 USPQ 753, 757 (1977).

Shetty, like the present application, is a chemical case claiming compositions of certain adamantine compounds and methods of using them to curb appetite in animals. The prior art taught structurally similar compounds for use as antiviral agents. The Patent Office rejected Shetty's claims as obvious, reasoning that administering the prior art compounds for an antiviral effect would inherently curb appetite. The C.C.P.A. reversed, holding that nothing in the art suggested using the structurally similar prior art adamantine to curb appetite until Shetty.

Other cases hold similarly ("inherency and obviousness are distinct concepts". *Kloster Speedsteel v. Crucible Inc.*, 230 USPQ 81, 88 (Fed. Cir. 1986); "Obviousness cannot be predicated on what is unknown." *In re Rijckaert* 28 USPQ2d 1955, 1957 (Fed. Cir. 1993) citing *In re Spormann* 150 USPQ 449, 452 (CCPA 1966)).

In the present application, the claims are rejected as obvious over

Chiba, the primary reference, in view of Ashurst. Chiba did not appreciate or

recognize the chemical's fragrance and flavor properties. For the reasons set forth

in Applicants Brief on Appeal, one of ordinary skill in the art would not appreciate or recognize what applicant did; namely, that the compounds provided desirable flavor/fragrance properties. As set forth in *Shetty*, that which is inherent in the prior art cannot form a proper basis for an obviousness rejection because obviousness cannot be based on what is unknown.

Conclusion

For the reasons set forth in the Brief on Appeal and this Reply, appellants respectfully request that the Board reverse the Examiner's rejection.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

By Beverly A. Lyman, Ph.D.

Reg. No. 41,961

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IThe following decision was designated by the board to appear in digest form only.

Patent and Trademark Office Trademark Trial and Appeal Board

v. American Professional Equipment Leas-Raytheon Company ing Corporation

Released May 25, 1976 Decided Mar. 26, 1976

Trademark opposition No. 53,363 by Raytheon Company, against American Professional Equipment Leasing Corporation, application, Serial No. 384,165, filed eb. 18, 1971. Opposition dismissed

TRADEMARKS

Class of goods — Particular cases Not similar (§67.2071)

Leasing of medical equipment; electrical apparatus including medical products.

Supreme Court of the United States

Maurice A. Garbell, Inc. v. Boeing Co.

Decided June 6, 1977 No. 76-1425

Opinion below; 192 USPQ 481 (Pat. No. Petition for writ of certiorari to Court of Appeals for the Ninth Circuit denied. 2,441,758)

Court of Customs and Patent Appeals

195 USPQ

Decided Nov. 17, 1977 No. 77-515

1. Patentability PATENTS

maceutical arts to substitute ethylene link between adamantane ring and amine for structurally-similar prior art methylene It is obvious and there is sufficient motivation to person skilled in chemical or phar-

2. Patentability — Invention — In general

herent in teachings of prior art is immaterial if one of ordinary skill in art would not ap-Fact that claimed method might be inpreciate or recognize that inherent method; mere hindsight assertion that corresponding dosages of prior art compounds useful for combatting microbial infestation, in light of renders claimed method for appetite control which claimed compound is obvious, obvious is untenable; inherency of advantage and its obviousness are entirely different questions; obviousness cannot be

In the specification, appellant identifies

claim 52.

his claimed compounds as follows:

Particular patents - Adamantane Derivatives

Adamantane Derivatives and Method of Using Same, rejection of claim 52 affirmed; rejection of claims 2-5 and 51 reversed Shetty, Anorectic

Appeal from Patent and Trademark Office Board of Appeals.

Shetty, Serial No. 171,736, filed Aug. 13, 1971. From decision rejecting claims 2-5, 51, and 52, applicant appeals. Modified. Application for patent of Bola Vithal

ΑĎ and Edward both of Philadelphia, Pa., Carl A. Hechmer, appellant. Sager,

sepur r. INARAMUTA (Jack E. Armore, of counsel) for Commissioner of Patents and Joseph F. Nakamura (Jack E. Trademarks.

and Lane, Associate Judges, and Morgan Ford, Associate Judge, United States Before Markey, Chief Judge, Rich, Baldwin, Customs Court.

Rich. Indge.

This appeal is from that

In re Shetty

In re Shetty

Trademark Office (PTO) Board of Appeals (board) rejecting claims 2-5, 51, and 52 in application serial No. 171,736, filed August

decision of the Patent and

3, 1971, entitled "Anorectic Adamantane

Derivatives and Method of Using Same.

- Invention - Specific cases — Chemical (§51.5093)

Bernstein, We affirm the rejection of composition claim 52 and reverse the rejection of method claims 51 and 2-5. The board rejected the claims under 35 USC 103 on new grounds, as provided in 37 CFR 1.196(b), as obvious from Brake¹ in view of Narayanan,2 Bernstein et al.,3 and

defined in claims 51 and 2-5, of curbing appetite in animals by administering certain The Invention

Patentability - Invention - Specific cases — Chemical (§51.5093)

adamantane compounds.5 The invention also pertains to the unit dosage form of a

The invention pertains to a method, as

composition for curbing appetite comprising maceutically acceptable carrier as defined in

such an adamantane compound and a phar-

predicated on what is unknown.

U.S. Patent No. 3,489,802, issued Jan. 13, 770, on application serial No. 610,779, filed Jan.

23, 1967.

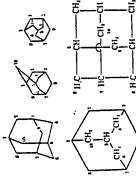
1 U.S. Patent No. 3,501,511, issued Mar. 17, 1700, on application serial No. 661,781, filed Aug.

21, 1967. ¹ U.S. Patent No. 3,270,036, issued Aug. 30, 1966, on application serial No. 493,899, filed Oct.

7, 1965. 7, 1965. 10.S. Patent No. 3,320,249, issued May 16, 1967, on application serial No. 470,930, filed July

9, 1965.

³ Adamantane is the trivial name assigned to represented in any of the following ways:



In re Shetty

The Rejection 95 USPO

or their pharmaceutically acceptable acid addition salts, wherein: $R_1 \,=\, H_1 \,\, \text{lower alkvl. aralkvl. ara$

H. lower alkyl, aralkyl, aralkyl substituted with NH₁, OH, OCH, halogen, alkyl, NO₂; phenoxyalkyl or phenoxyalkyl substituted with NH₁, OH, OCH, halogen, tuted with NH, OH, OCH,, halogen, alkyl, or NO,; acyl such as formyl or

H. lower alkyl, COO-lower alkyl, aralkyl, aralkyl substituted with NH, OH, OCH, halogen, alkyl, NO; phenoxyalkyl or phenoxyalkyl substituted with NH,, OH, OCH,, halogen, alkyl, or NO;; acyl such 11 ĸ,

R, can be joined together to form, with as formyl or acetyl. and ž

= H. lower alkyl, or alkynyl = H. lower alkyl, or alkynyl = H. OH, halogen, or lower alkyl = H. OH, halogen, or lower alkyl

and R, together may represent a carbonyl

R, = H. Jower alkyl, halogen, hydroxy, alkoxy, amino or substituted amino, trifluoromethyl, sulfamyl, nitro, phenyl Rs, R., R., are any of R, n = 0 to 4

E

prises administering to the animal an amount effective to curb appetite of a com-Independent claim 51 defines the "method of curbing appetite in an animal which compound" of the above formula.

Brake describes a process for improving the yield of a-methyl multicyclic methylamines, one of which is a-methyl-1-adamantanemethylamine, lustrated as:

 \in

and is described as being useful as an antivital agent in animals

adamantyl sulfonamide compounds, useful as an-timicrobial agents, e.g., as antiviral agents, Narayanan teaches of the formula:

wherein R and R¹ each is hydrogen, halogen, lower alkyl, phenyl or phenyl-lower alkyl, R² is hydrogen or lower alkyl, R³ is hydrogen, lower alkyl, lower alkoxy, halogen or halo-lower alkyl and n is 0, 1 or 2, and salts thereof.

Narayanan also teaches the use of his compounds in dosages corresponding to those of appellant. pertains to adamantyl biguanides of the formula: et al. Bernstein

The board treated the examiner's rejec-

maceutical uses.

Ξ

and to acid-addition salts thereof.

In Formula I, R and R, each is hydrogen, halogen, lower alkyl, phenyl or lower alkoxy, R,, R, and R, each is hydrogen, lower alkyl or R, and R₄ each is hydrogen, I phenyl-lower alkyl and n is 0 or 1. These compounds are hypoglycemic agents effective in reducing blood sugar content in mammals. The compounds of the Bernstein patent are illustrated by the following formula:

or obviousness from Brake in view of the

from Brake alone.

Narayanan patents.

Bernstein and

board agreed with the examiner

and to acid-addition and quaternary ammonium

derivatives of phenothiazines, therapeuticalactive as central nervous system These compounds are ly active a denressants.

in effective anorexia. Relative to the claimed composition, appellant states that there is ture of the compounds of the claim and the of Brake alone, the board erred in rejecting the method claims by considering Narayanan in addition to Brake. Appellant sant effects of appellant's compounds would be readily recognized from treating virus-infected animals with a related compound. It is also urged that the board ignored differences in treatments for viral inargues that Narayanan's reference to dosage for treating viral infection is an improper basis for rejection. It is urged that the board mistakenly assumed that appetite-suppresection and obesity, and that therefore Narayanan's dosage cannot be said to result an appreciable difference between the strucprior art compounds, and that the former would not have been obvious because the motivation to make the required structural

appellant's and Brake's compounds, the compounds of the claim would have been Narayanan render obvious appellant's phar-maceutical carrier and "unit dosage form." unexpected difference in the properties of structurally closely related compound dis-closed by Brake. It is argued that Brake and As to the method claims, the solicitor concompounds as antiviral agents in dosages that correspond to and would suggest inherently appetite-curbing because appellant's compounds are tion in the prior art to administer Brake's compound as an antiviral agent, appellant's tends that Narayanan discloses adamantyl The solicitor supports the board position homologous and there is sufficient motivapurpose does not render the amounts of the Brake antiviral compound obvious from and unpatentable over similar and different that 'in an amount effective to curb appetite'
* * * " Similarly, the board did not agree that appellant's composition in an "appetite curbing amount" would have been obvious tion as relying upon Brake alone and as citing the Bernstein and Narayanan patents to show the state of the art. The board did not sustain the rejection of claims 2-5, 51, and 52 as obvious from Brake alone because Brake's failure to disclose an amount of his Under 37 CFR 1.196(b), the board made that compound effective as an antiviral agent renders unobvious the administration of "adjacent homologs of Brake's compound a new ground of rejection under 35 USC 103 appellant's compounds having an ethylene

Brake's corresponding adjacent homolog (methylene linkage). Relative to the method claims, the board found sufficient motivation in the prior art to administer Brake's

and adjacent ethylene

compound

homologs" as antiviral agents, and con-

cluded that administering appellant's com-

nave been obvious from Brake and

Narayanan since the amounts suggested by pounds in appetite-curbing amounts would

Narayanan to achieve antiviral effects en-

compass the amounts intended and claimed

by appellant.

Appellant contends that, after refusing to sustain the examiner's rejection on the basis

linkage would have been obvious in view of

the prior art (\(\beta\). (1-a damanty).

a-methylethylamine) is referred to by the examiner as "analogous" to the methylene linkage of appellant's compound closest to linkage of Brake's a-methyl-1-adamantanemethylamine and by the board as a "homolog," Since the appellant has not challenged either of these classifications, we proceed on the assumption that he accepts the inference that his compounds, whether homologs or analogs, would be expected to have similar properties to the prior art compound. Whether the adamantyl compounds in auestion are properly classified according We note at the outset that the ethylene

variation is absent. turally similar adamantane derivatives "analogous" to those claimed. The Bernsder 35 USC 103 in view of the teaching in Brake of administering to animals structein and Narayanan patents were cited to aminer reasoned that the composition claim amine, whereas the prior art compound has a methylene link. This "minor molecular The examiner rejected appellant's claimed composition and method as obvious unwould have been obvious from the prior art merely by a methylene group, i.e., the inslink between the adamantane ring and the modification" was further asserted to be made obvious by the Bernstein and alkylene links between adamantane and other moieties and are directed to pharshow similar compounds in the art. The extant compounds have at least an ethylene Narayanan patents, which disclose lower

because the respective compounds

The solicitor responds by arguing that in the absence of comparative evidence of any method claims unobvious.

to the usual definitions of "homolog" and "analog," we shall not consider inasmuch as appellant has not argued the point.

The solicitor has taken the position that absent comparative evidence demonstrating any unexpected difference in the properties of the compounds, the claimed composition would have been obvious from and unpatentable over the structurally closely related compound disclosed in Brake. On the other hand, appellant contends that the presence of the ethylene rather than the methylene group constitutes "an appreciable difference in the claimed compound and the prior art compounds," and relies on In re Taborsky, 502 F.2d 775, 183 USPQ 50 (CCPA 1974) for support of his argument that without some teaching of motivation to make the required molecular variation, a finding of obviousness based on structural similarity is improper.

difference of a mere methylene group prior art compounds, cited the Bernstein and Narayanan references showing the state tention that the adjacent alkylene link in question constitutes an "appreciable difference" in the compounds. We think [1] Regarding this issue of structural similarity, we agree with the solicitor and the PTO position. The examiner noted the between the compound of the claim and the of the art as prior art knowledge of use of lower alkylene links between adamantane chemist." We do not accept appellant's conthat a person skilled in chemical and/or extend the alkylene linkage of the prior art and other moieties, and concluded that "this minor molecular modification would clearly be obvious to the pharmaceutical pharmaceutical arts would not hesitate to compound. Further, we note that appellant's compound closest to the prior art and its synthetic preparation are disclosed in Narayanan as one of a group of compounds for producing his adamantyl sul-fonamide. This leaves no room for doubt that the prior art knowledge renders appellant's compound structurally similar and provides sufficient motivation to make Moreover, appellant has no basis for relying on Taborsky, supra. Unlike the present case, the prior art of record in Taborsky expressly initiated the scope of "halogen" to exclude appellant's claimed fluorosalicylanilide compounds and stated "several disadentages in practice" of free salicylanilides. 502 F.2d at 781, 183 USPQ at 55 (emphasis supplied). Appellant here has shown to such reason to preclude the conclusion that appellant's compounds are

structurally similar to the prior art compounds.

Confronted with PTO evidence of obviousness, appellant has offered no evidence of unobviousness, as by showing an actual difference in properties between his compounds and the prior art compounds. In re Hoch, 57 CCPA 1292, 428 F.2d 1341, 166 USPQ 406 (1970). Appellant merely shows that his novel compounds are appetite suppressants whereas the reference compounds pressants whereas the reference compounds pressants whether his compounds are antiviral, as is Brake's prior art compound. Presented with such an absence of comparative or other evidence with respect to the properties of the compounds and the claimed composition, we hold that composition and unpatentable over the prior art.

[2] Regarding method claims 51 and 2-5, the solicitor agrees with the board that:

* * * the compounds of claim 51 are obvious from and unpatentable over the corresponding Brake compound and the Narayanan disclosure of a dosage which corresponds to appellant's disclosed appetite curbing dosage (therefore, inherently appetite curbing). [Emphasis added.]

We cannot accept this conclusion. The issue here is whether the claimed method of curbing appetite would have been obvious. That appellant's "amount effective to curb appetite" corresponds to or inheres in Narayanan's amount "to combat microbial infestation" does not persuade us of the obviousness of appellant's method. As this court said in In re Naylor, 54 CCPA 902, 905-06, 369 F.2d 765, 768, 152 USPQ 106, 108 (1966):

[Inherency] is quite immaterial if, as the record establishes here, one of ordinary skill in the art would not appreciate or recognize that inherent result. * * *

* * * we find nothing in the record which would afford one of ordinary skill reason to anticipate that a trial * * * [of the combined prior art teachings] would be successful in producing the polymer recited in the claims. The Patent Office has failed to show a reasonable expectation, or some predictability, that Brake's compound would be an effective appetite suppressant if administered in the dosage disclosed by Narayanan. The mere hindsight assertion that corresponding dosages render appellant's method obvious is untenable.

Prior to appellant's disclosure, none of the adamantane compounds in any of the references before us suggested a use, much less a dosage, for curbing appetite. What we said in In re Spormann, 53 CCPA 1375, 1380, 363 F.2d 444, 448, 150 USPQ 449, 452 (1966), relative to inherency applies equally

As we pointed out in In re Adams, 53 CCPA 996, 356 F.2d 998, 148 USPQ 742 ((1966)), the inherency of an advantage and its obviousness are entirely different questions. That which may be inherent is not necessarily known. Obviousness cannot be predicated on what is unknown.

Accordingly, the decision of the board is affirmed as to claim 52 and reversed as to claims 51 and 2-5.

District Court, N. D. Illinois, E. Div.

Radial Lip Machine, Inc.

No. 73 C 2945 Decided Sept. 29, 1977

PATENTS 1. Pleading and

1. Pleading and practice in courts — Jury trial — In general (§53.571)

Accused patent and trademark infringers whose counterclaim to complaint seeking damages for breach of contract and fraud, and payment of royalties under assignment contract, and presents several grounds for declaratory relief that would have given rise to right to jury trial if raised by coercive action, are entitled to jury trial on all factual issues common to legal and equitable claims.

Pleading and practice in courts – Jury trial — In general (§53.571)

Case in which only two competing corporations are involved, length of trial is estimated to be three weeks, there is no inundation of large number of documents, and patent validity is undisputed does not surpass limits of jury competence.

Action by Radial Lip Machine, Inc., against International Carbide Corporation, and Numac Research Industries, Inc., for patent and trademark infringement, in which defendants counterclaim for

declaratory and equitable relief and damages. On plaintiffs motion to strike defendants' demand for jury trial. Motion denied. William T. Kirby, Roger McFadden, and Hubachek, Kelly, Rauch & Kirby, all of Chicago, Ill. (Robert L. Harmon, Richard H. Compere, and Hume, Clement, Brinks, William, Olds & Cook, Ltd., all Chicago, Ill., and Vincent L. Barker, Jr., and Owen & Owen, both of Toledo, Ohio, of counsel) for plaintiff.

Jack E. Dominik, Alan B. Samlan, and Dominik, Knechtel, Godula & Demeur, all of Chicago, Ill., for defendants.

Marshall, District Judge.

This is a civil action for patent and trademark infringement and breach of contract. The parties are three corporations involved in the development, manufacture and marketing of a "radial lip," drill which is used in the metal cutting industry. Plaintiff has moved to strike defendants' demand for a jury trial.

Carbide Corporation and Numac Research Industries, Inc., developed the radial lip drill and applied for patents on the drill, its that in return for 10% of Calar's stock and a The factual background reveals a series of corporate transactions which have transferred patent rights and created numerous contractual obligations between the parties. In the late 1960's officers of the grinding apparatus and the grinding method. Defendants then entered into various licensing agreements with other corporations. In 1969, defendants executed an agreement with Calar, a holding company. The Calar agreement basically provided share of outstanding rents and royalties rom leases and licensing agreements, defendants would transfer their patent rights and those outstanding contracts and licenses to Calar. Defendants also agreed to perform Calar and received a license to make, sell and resharpen radial lip drills. Calar subsequently transferred its interest in the agreement, including the drill patents and trademark, first to its wholly owned subtwo defendant corporations, International certain research and technical services for

^{&#}x27;- The predecessor of these two corporations was Radial Lip Drill Company, which is to be distinguished from two other similarly named corporations in this case, Radial Lip Machine Corporation (a subsidiary of Calar) and Radial Lip Machine, Inc. (the present plaintif).

which FAIRBANKS could not be considered primarily merely a surname.

a musician, a felon, a salesman, a policeman and a former White House social secretary. written about twelve different individuals whose surname is POSTEN including a (showing four individuals named POSTEN) and the Greater Miami directory (showing seven POSTEN listings). In addition, he has judge, an author, a baseball player, a wresiler, filed Lexis/Nexis printouts containing articles submitted copies of telephone listings from the Maryland Suburban Washington directory

that they have never known anyone with the surname POSTEN. District of Columbia telephone directories to pisture absence of any POSTEN listings therein as well as a declaration signed by twenty-three individuals (including the attorney of record) stating that they are familiar with names currently in use in the United States; that POSTEN is not considered by them to be primarily merely a surname; and In rebuttal, applicant filed copies of pertinent pages from the Northern Virginia and

FEN is primarily a surname and thus to shift Lexis/Nexis material are, in our view, sufficient to establish a prima facie case that POStional Marketing Corporation, 204 USPQ (675 (TTAB 1979)] they are credible evidence to be considered. They show that there are individuals who bear the name in question. The directory listings provided by the Examining Attorney in this case, coupled with the the burden to the applicant to show that, ways be sufficient to establish that a term is While telephone listings alone may not alprimarily merely a surname (See In re Direc-

that there are two telephone directories which do not list anyone named POSTEN proves any other significance. It establishes nothing except that twenty-three individuals have nevonly that no one by that name lives in the areas covered by those directories or, if they do, they er, applicant's showing does not satisfy this burden. The declaration filed by applicant does nothing to establish that POSTEN has er met anyone named POSTEN. And the fact significance to the purchasing public. Howevalthough a surname, POSTEN has some other

principal register. See In re Glen Raven Knit-ing Mills, Inc., 153 USPQ 134 (TTAB 1967) and In re Royal Overseas Traders. Inc., 184 USPQ 575 (TTAB 1974). Proving that some telephone directories are devoid of POSTEN references and that twenty-three people do not know any one called POSTEN 2 does not do not have listed telephone numbers.
[1] If applicant is attempting to prove that POSTEN is not a common surname (for which its evidence is not necessarily convinceven rare surnames are not registrable on the show that POSTEN has a significance apart ing), there are several cases which hold that from its use as a surname.

In view of the foregoing, the refusal to register is affirmed. ² These individuals have not been shown to be experts on surname usage in the U.S. or on trademark law.

Court of Appeals, Federal Circuit

230 USPQ

Kloster Speedsteel AB v. Crucible Inc.

Kloster Speedsteel AB, et al. v. Crucible Inc..

Nos. 85-2174, 85-2214, 85-2215 and 85-2274 Decided June 11, 1986

1. Patentability - Anticipation - In general (§51.201)

prior art patent did not anticipate claimed alloy body, despite evidence that prior art figure could be scaled to match claims limitations, since nothing in prior art patent discloses Federal district court properly found that actual size of carbide particles.

2. Patentability - Anticipation - Process (§51.225)

- Invention - Specific cases — Ćhemical (§51.5093) Patentability

would result in product having properties of claimed alloy body, which led federal district court to discuss processes in its opinion, does not establish that court erroneously based its judgment on view that claimed invention was action, as to whether processes of prior art Testimony, in declaration of infringement

3. Patentability — Invention — Specific cases — Chemical (§51.5093)

what those skilled in art suggested should not be done—of using lower temperatures and Claimed alloy body's achievement in doing limiting carbide size—is strongly probative of

4. Patentability - Tests of - Skill of art non-obviousness.

level in art is without merit, since patent challenger was not prejudiced by court's having looked to other inventors, rather than one district court erred when it did not find specific Patent challenger's contention that federal of ordinary skill.

In general 5. Patentability - Evidence of - Comsaccess — (\$51.4551)mercial

patent challenger has shown no basis for its ed, by citing delay between patent application and commercial success, is not valid, since mere passage of time may not be enough to discredit nexus with commercial success, since attack, and since federal district court attributed proper weight to other objective evidence, commercial success of claimed invention, to which it and patent holder had earlier stipulat-Patent challenger's attempt to denigrate

failure of others, and wide acceptance, of such as filling of longfelt and unsolved need, claimed invention.

 \mathbf{z}

6. Accounting - Increased or treble damages or profits (§11.35)

advice of counsel, despite patent holder's warnings, and its admitted "strategy" of con-tinuing infringement in hope that court would finding is implicit, it is clearly erroneous, in view of accused infringer's failure to seek found infringement not willful, but if such Federal district court's refusal to impose increased damages does not mean that court hold patent invalid.

7. Injunction — In general (§40.1)

Infringement - Contributory infringement (§39.30)

ture products found to infringe, is bound by injunction, and may appeal federal district court's refusal to modify it, despite agreement between infringer and corporation that corpoimmediately after conclusion of patent in-fringement trial and before judgment, in order to evade effect of possible injunction, and that purchased facility infringer used to manufac-Corporation that was created by infringer ration accepted no liability for infringement.

Particular patents — Alloys

3,561,934, Steven; Sintered Steel Particles Containing Dispersed Carbides, holding of validity affirmed.

3,746,518, Holtz, Jr., Alloy Composition and Process, holding of validity of claim 30 affirmed

District of Pennsylvania, Diamond, J.; 226 USPQ 36. Appeal from District Court for the Western

Crucible Materials Corp., et al., for declara-tion of patent invalidity. From judgment for Crucible Inc., et al., Kloster Speedsteel AB, et al., appeal. Affirmed in part and remanded in holm Steel Corporation, against Crucible Inc., Consolidated actions by Crucible Inc., against Stora Kopparbergs Bergslags, AB, and Uddeholms, AB, for patent infringement, and by Siora Kopparbergs Coporation, and Udde-

See also 224 USPQ 714 and 226 USPQ part.

Graves, Donohue & Raymond, both of New York, N.Y., on the brief) for Stora, et al. Donohue & Raymond, both of New York, N.Y. (Richard S. Clark, and Brumbaugh, Francis J. Hone, and Brumbaugh, Graves,

Dunnegan, Reboul, MacMurray, Hewitt, Maxumard & Kristol, Arthur D. Gray, Stunrt J. Sinder, William J. McNichol, Scott A. Wisser, and Kenyon & Kenyon, of coun-Fayne A. Gross, New York, N.Y. (William set) for Kloster, et al. end R. Farabow, Jr., and Finnegan, Henderson, Farabow, Garrett & Dunner, both of Washington, D.C. (Michael C. Elmer, Alten Al. Sokal, and Finnegan, Henderson, Farabow, Garrett & Dunner, on the brief) for Crucible, et al. efore Markey, Chief Judge, Nichols, Senior Circuit Judge, and Newman, Circuit

Markey, Chief Judge.

ern District of Pennsylvania holding claim 30 of U. S. Patent No. 3,746,518 ('518 patent) and claim 4 of U. S. Patent No. 3,561,934 ('934 patent) valid and infringed. Crucible. Inc. v. Stora Kopparbergs Bergslas AB, 594 F. Supp. 1249, 226 USPQ 36 (W.D. Pa. 1984). We affirm in part and remand in part. Consolidated appeals from a judgment of the United States District Court for the West-

(1) Proceedings in the District Court

th 1974, Crucible, Inc. (Crucible), assignee of the '518 patent (issued July 17, 1973 to Frederick C. Holtz, Jr., on an application filed February 26, 1965), and of the '934 patent (issued February 9, 1971 to Gary Steven on an application filed September 11, 1967), charged application filed September 11, 1967), charged Storia Kopparbergs Bergslags AB and Storia filed a declaratory judgment action in the United States District Court for the District of Rupparberg Corp. (Stora) with patent in-fringement in manufacturing and selling "ASF" steel products. On July 25, 1974, Stora New Jersey alleging patent invalidity, non-infringement, and violation of the antitrust laws. On October 4, 1974, Crucible sued Stora 2 in the Western District of Pennsylvania, where the district court consolidated the

Crucible Materials Corp., the successor in interest of Crucible, Inc. was added as a plaintiff in an order dated October 11, 1984.

² In 1977, Uddeholms AB purchased the divi-sion of Stora that manufactured ASP steel. Udde-holms and its American marketing substituty, Ud-deholms Steel Corp., now called Uddeholm Corp., were joined as defendants and are included here under "Stora".

suits and severed the antitrust and damage

ure to cite a reference during prosecution of the application that resulted in the '518 patent In 1976, a proceeding was initiated in the Patent and Trademark Office (PTO) on Stora's protest against a continuing applica-tion related to the '518 patent. Crucible's failwas reviewed in that proceeding.

October 6, 1982, filed an opinion on September 19, 1984, and entered judgment for Crucible on October 11, 1984. The court held that: (1) claim 30 of the '518 patent had not been proved invalid under 35 U.S.C. §§102, 103, or 112, and was infringed by Stora. (2) claim 4 of the '934 patent had not been proved invalid under 35 U.S.C. §§102 or 103, (3) Stora had cessors in interest and assigns." from making infringing ASP steel products.
On October 31, 1982, the 25th day after Crucible was not entitled to increased damages; and (5) no litigant was entitled to attorney fees. In its October 11, 1984 order, the court permanently enjoined Stora and its "sucforceable because of inequitable conduct; (4) waived its defense that the patents were unen-The district court tried the case without a jury on 18 dates between September 13 and

its subsidiary, Speedsteel of New Jersey, Inc. (Kloster), and Kloster purchased the facility Stora used to make the infringing products. In a March 12, 1985 order disposing of trial and almost two years before the court's decision, Fagersta AB, a Swedish corporation, and Stora formed Kloster Speedsteel AB and

ceability defense, it had in any event failed to establish inequitable conduct before the PTO. 226 USPQ 842 (W.D. Pa. 1985). finding that undisclosed art was not more presented by Stora (and repeated by Stora before us). The court: (1) denied a motion by Kloster to modify the injunction by excluding Kloster or by deleting "successors in interest and assigns"; (2) refused to stay the injunction an appeal, amended its opinion to enter a material than that considered by the examiner, and that, if Stora had not waived its unenforits decision and opinion in light of arguments pending appeal; (3) amended the October 11, 1984 order to enjoin Stora from infringing the specifically upheld claims; and (4) anticipating post-trial motions, the district court reviewed

Stora in Appeal No. 85-2215 and Kloster in Appeal Nos. 85-2174/2274 contest the de-

Stora admitted infringement of claim 4 of the '934 patent. 594 F.Supp, at 1251, 226 USPQ at 37.

'The district court, apparently through inadvertence, left "successor in interest and assigns" out of its March 12, 1985 injunction order from which Kloster appealed on March 21, 1985 (85-2174). The court included the phrase in its injunction order

infringement and denying increased damages under 35 U.S.C. §284 and attorney fees under 35 U.S.C. §285. On stipulated motion, this termination that Stora had not shown the claims invalid,3 and Kloster contests the recourt consolidated the appeals on June 14, 85-2214, Crucible cross-appeals from the por-tion of the judgment refusing to find willful fusal to modify the injunction. In Appeal No.

(2) The Technology

The present field of technology is that of metal alloy compositions. The focus at trial was on "high speed" tool steels used to make netal cutting tools. High speed tool steels must possess properties of grindability, heat resislance, hardness, toughness, and dimensional stability. Those properties minimize tool replacement and resulting production line shut-

downs.

stringers resulting primarily from the time required to cool the ingot. That carbide distritribution of coarse carbides, i.e., striations and bution adversely affects grindability and cut-High speed tool steels generally contain relatively large amounts of carbon and signifimetallic carbides distributed throughout the microstructure of the steel. Conventionally cast high speed tool steels have a microstructure characterized by an inhomogeneous discant amounts of alloying elements that form

tially produced a particulate alloy, preferably by atomization, and then applied heat and pressure to consolidate the resulting powders ting efficiency.

Prior art workers investigated powdered prior art workers inimetallurgical techniques. Those workers inimetallurgical techniques. into an integral product.

between high densification and fine carbide size. The invention disclosed in the '518 patent made it possible for the first time to maintain fine, uniformly dispersed carbides while agglomeration and loss of carbon. Low temfication. Thus, prior art workers had to choose ers had to compact the powders at elevated cause increased rate of carbide growth and peratures, on the other hand, render the powder insufficiently malleable for suitable densi-To achieve substantially full density, worktemperatures. High temperatures, however,

dated March 25, 1985, from which Kloster also appeals (85-2274). See Fed. R. App. P. 4(a)(4). The issues of validity under 35 U.S.C. §112 and infringement are not contested on appeal. On November 4, 1985, this court dismissed the appeal of Fagersia AB in response to a stipulated

motion of all parties.

achieving a fully dense product having satisfactory interparticle bonding.

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(3) The Claims in Suit

Claim 30 of the '518 patent reads:

dental impurities, wherein said base metal is consisting essentially by weight from about 5% to about 5% carbon at least 10% of a hard phased forming element selected from the group consisting of Cr, W, Mo, Ti, Ta, Cb, Zr, Hf, V, and Al, and mixtures thereof, and the remainder base metal and inciiron and nickel, and wherein the total inherently alloying composition, said alloy body consisting essentially of a continuous bursed hard phase of minute dispersed hard phase particle sizes that are substantially mum dimension, said alloying composition selected from the group consisting of cobalt, worked supersaturated solid solution of an metallurgical phase with a uniformly disentirely less than three microns in maxi-A consolidated integral alloy body which is substantially fully dense formed of a hot amount of base metal is at least 30%.

Claim 4 of the '934 patent reads:

An article of manufacture as defined in claim 2, in the form of a hob for use in milling applications.

On May 2, 1978, Crucible disclaimed, under 35 U.S.C. §253, claim 1 and its dependent claim 2 of the '934 patent. Because it depends from and thus includes all limitations of claims 1 and 2, however, claim 4 properly reads:

18.0 tungsten, up to 10.0 chromium, up to 12 molybdenum, up to 5 vanadium, up to 12 cobalt and balance iron, with tungsten + ing equal to at least 10 percent, [said metal body being] in the form of a hob for use in ing, quenching and tempering, the composition of said metal body [consisting] of, in percent, 0.80 to 3.00 carbon, up to 2 manganese, up to 1 silicon, up to 0.5 sulfur, up to molybdenum + chromium + vanadium bethroughout, said body having a hardness of at least about 58 Rc and being characterized by size change uniformity upon austenitisbody constructed of compacted particles of a high speed tool or die steel composition ium, columbium, tungsten and tantalum each of said particles having carbides of said reactive metal substantially evenly dispersed containing a metal component capable of reacting with carbon to form carbides, said reactive metal component being at least one metal selected from the group consisting of titanium, vanadium, molybdenum, zircon-As an article of manufacture, a metal milling applications.

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Issues Presented

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Whether the district court erred in: (1) stusing to hold the asserted claims invalid; le; (3) denying increased damages and at-erney fees, and (4) enjoining Stora's "suc-) refusing to hold the patents unenforceassors in interest and assigns'

OPINION

ed by those findings or are incorrect as a matter of law. Atlas Powder Co. v. E. I. Pul'out De Nemours, 750 F.2d 1569, 1573, 22.1 USPQ 409, 411 (Fed. Cir. 1984). the on appeal, Stora must persuade this len on appeal, Stora must committed receivable error in determining that it had miled to meet its burden at trial. It must do conclusions on that issue cannot be supportequired to prove by clear and convincing vidence facts compelling a conclusion of nvalidity. See Datascope Corp. v. SMEC, nc., 776 F.2d 329, 323-24, 227 USPQ 838, 340, 41 (Fed. Cir., 1985). To meet its burlidity were clearly erroneous or that its legal so by convincing us that the court's probative findings underlying its holdings on va-To meet its burden at trial, Stora was

A. Claim 30 of the '518 Patent

the statutory mandate that all patents shall be presumed valid. 35 U.S.C. §282; see Fromson v. Advance Offset Plate, Inc., 755 F.2d 1549, 1555, 225 USPQ 26, 31 (Fed. fied government agency presumed to have fied government agency presumed Hoist & Dernick Co. v. Sowa Sons, Inc., 725 F.2d 1350, 1359, 220 USPQ 763, 770 (Fed. cir.), cert. denied, 105 S. Ct. 95, 224 USPQ 520 Storn failed to proffer prior art more perti-nent than that considered by the PTO and therefore had the "added burden of overcoming the deference that is due to a quali-The district court properly noted that (Sir. 1985).

fully participated since 1976 in the PTO proceedings that led to those decisions. Besented to the district court in this case. See In re Holtz, 224 USPQ 714 (Bd. App. 1984) (materiality of uncited art); In re 6, 1981) (unpublished) (obviousness). Stora The court appropriately gave weight to two FTO Board of Appeals (Board) deci-Holtz, Appeal No. 470-30 (Bd. App. Aug. on which the '518 patent issued. The Board there resolved issues pertinent to those presions on the application that related to that

weight by the court," Stora's assertion on appeal that the district court gave undue deference to the PTO decisions comes with PTO's decisions should be accorded "great cause both sides agreed at trial that the poor grace

(a) Anticipation

is found in that single prior art reference. Kalman v. Kimberly-Clark Corp., 713 F.2d 760, 771, 218 USPQ 781, 789 (Fed. Cir. 1983), cert. denied, 465 U.S. 1026, 224 USPQ 520 (1984). The corollary of that rule is that absence from the reference of anticipation. That finding is reviewed under the clearly erroneous standard. Id. [1] The district court found, as had the any claimed element negates anticipation. Alias Powder Co., 750 F.2d at 1573-74, 224 USPQ at 411. The district court found no 3,150,444, issued September 29, 1964 to Orville W. Reen (Reen patent). Relying Stora says that figure can be scaled and the carbide particles it shows can then be measured at three microns or less. Stora, however, must show that each element of the claim found claim 30 anticipated under \$102 by the disclosure in U. S. Patent No. principally on figure 2 of the Reen patent, Stora says the district court should have

when sued so measure a drawing as to match one limitation relating to size does not establish anticipation. In all events, the disdisclose other elements, and Stora has not shown that finding to have been clearly PTO, that nothing in the Reen patent discloses the actual size of the carbides, 594 F. Supp. at 1255, 226 USPQ at 40, and Stora trict court found that the Reen patent fails to has not shown that finding to have been clearly erroneous. Patent drawings are not drawn to scale, and that a defendant may erroneous.

(b) Obviousness

undue weight to the objective evidence be-cause it bore no nexus with the claimed in claim 30 and the prior art; (iii) failed to find the level of ordinary skill; and (iv) gave ous findings and misapplied the law under 35 U.S.C. §103, even though the court cited *Graham* v. *John Deere Co.*, 383 U.S. 1, 17, 148 USPQ 459, 467 (1966). More specifically, Stora contends that the district court: (i) considered and discussed only the process disclosed in the '518 patent, not the product set forth in claim 30; (ii) failed to ascertain differences between the invention set forth Stora says the district court made errone-

cess." On the presence of that single sentence, Stora says attributes of method claims sentence in the court's opinion in which it called the invention a "method and proin the '518 patent were "brought into play to save claim 30." Stora builds its first argument on

the alloy body claimed, and the court was to have been used in error, but must be shown to have served as the basis of the judgment appealed from. Stora makes no ply disregards references by the district court to the claimed invention as a product. Much testimony on both sides related to whether the processes of the prior art would result in a product having the properties of led thereby to discuss processes in its opinion. That fact does not establish, however, that the court based its judgment on the view that the invention of claim 30 was a process. court's opinion, Stora reflects its failure to court's opinion, Stora reflects its failure to appeciate the appellate function. This court reviews judgments, not phrases. Fromson, 755 F.2d at 1556, 225 USPQ at 31. To be relevant on appeal, phrases in a trial court's opinion must be shown not only such showing. On the contrary, Stora sim-[2] In its focus on the phraseology in the

(ii) Differences

cision Metal Molding 38 (Nov. 10, 1952) by Lambert H. Mott (Mott); and British Pat-ent No. 781,083 issued August 14, 1957 to Stora's principal prior art references are: the Reen patent; Progress Report on Hot Forging Prealloyed Metal Powders, 10 Pre-Gregory J. Comstock (Comstock).

warning against carbide growth. We are also asked, as was the district court, to reexamine the figure in Reen and measure Reen patent disclosed temperatures similar to those disclosed in the '518 patent and that therefore Reen need not have included a Stora urges this court to find that the the size of carbide particles in the figure.

examiner considering a claim in an application in light of the prior art. See Polaroid Corp. v. Eastman Kodak Co., No. 86-604 slip op. at 4-7, 229 USPQ 561 (Fed. Cir. Apr. 25 1986). Here, a patent has issued, a judge. Assuming arguendo that Stora's and trial has been conducted on 18 dates, much testimonial and documentary evidence has been received and evaluated by a district the district court's factual interpretations of the prior art were equally permissible, that The role of this court on appeal from a judgment of a district court is not that of an

City, N.C. U.S. ','', 105 S. Ct. 1504, 1512 (1985). Stora must on appeal establish not only that its view is permissible but that that of the district court is clearly in circumstance would avail it nothing on appeal, for when there are two permissible views of the evidence, the factfinder's choice between them cannot be deemed clearly erroneous. Anderson v. City of Bessemer

evidence is the special province of the trier of fact." Inwood Laboratories, Inc. v. Ives Laboratories, Inc., 456 U.S. 844, 856, 214 USPQ 1, 7 (1982). ous. See American Original Corp. v. Jenkins Food Corp., 774 F.2d 459, 462-63, 227 USPQ 299, 300-01 (Fed. Cir., 1985). "Deapproach cannot of itself establish that the district court's findings were clearly erronetermining the weight and credibility of the tends to support its view, largely ignoring the contrary evidence accepted by the district court's credibility determinations. That trict court. Particularly ignored are the dis-Stora limits its discussion to evidence that As all too frequently occurs on appeal,

tural alloys from which satisfactory cutting tools could not be produced. That the district court credited that testimony is reflectdensity without sacrificing fine carbide size. Dr. Tien stated that Mott dealt with strucprior art produced inferior cutting tool steels. Neumeyer said Comstock did not attain full density or fine carbides. He added that one practicing the subject matter of the Reen patent would be unable to achieve full At trial, Crucible's main winesses, Mr. Neumeyer and Dr. Tien, testified that the manager and pr. Tien, testified that the produced inferior cutting tool ed in its statement:

the requisite combination of high density and finely dispersed carbides necessary to the production of top quality high speed tool steel. Indeed, no prior inventor even regarded such a combination as theoretically that no prior inventor was able to achieve references cited by [Stora] with special at-Comstock and Reen I, and [have] concluded We have considered all of the prior art tention to those primary sources; i.e., Mott,

594 F. Supp. at 1257, 226 USPQ at 42 (footnote omitted). possible.

court." Windsurfing International Inc. v. AMF Inc., 782 F.2d 995, 999, 228 USPQ 562, 565 (Fed. Cir. 1986); see Railroad Dynamics. The district court credited the testimony of Mr. Neumeyer and Dr. Tien, and rejected that of Stora's witness, Dr. Lawley. On this credibility determination for that of the district record, Stora has shown no "basis on which this court could engage in the normally inappropriate process of substituting a contrary

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175, v. J. Stucki, Co., 727 F.2d 1506, 1514, 220 115; V. 929, 937 (Fed. Cir.), cert. denied, 105 S. Ci. 220, 224 USPQ 520 (1984).

[3] Moreover, the district court met Stora's argument that Reen did not have to warn against carbide growth. The district court correctly found, as had the PTO board, that writher Reen nor Comstock even cautions against carbide growth at elevated temperatures." 594 F. Supp. at 1257 n.9, 226 USPQ at 42 n.9. Indeed, the Reen patents asys, "generally the longer the time and higher the temperature, the higher the density of the sintered arrip." Comstock, notwithstanding actual knowledge of Mott's carbide size discussion, advises the use of "as high a temperature as possible without melting." Thus, the inventor achieved the invention set forth in claim 30 by doing what those skilled in the art suggested should not be done, i.e., using lower temperatures, a fact strongly probative of nonobviousness. W. L. Gore & Associates v. Garlock, Inc., 721 F.24 1540, 1552, 220 USPQ 393, 312 (Fed. Cir. 1983), cert. denied, 105 S.Ct. 172 (Fed. Cir. 1983), cert. denied, 105 S.Ct. 172 (Fed. Cir. 1983).

Lastly, the district court's determination that until the disclosure in the '518 patent became available no one could produce the combination of full density and fine carbide size found in the invention set forth in claim 30, and its determination that the limitation to carbides of less than three microns was not, in view of that fact, essential to its nonobviousness conclusion, are fully supported in the recurl. See Gardner v. TEC Systems, Inc., 725 F.2d 1338, 1345-46, 220 USPQ 777, 783-84 (Fed. Cir.), cert. denied, 105 S. Ct. 116 (1984).

In arguing that the district court failed to assertain the differences between the invention set forth in claim 30 and the prior art, Stora has failed to carry its burden on appeal.

(iii) Level of Skill

Stora's contention that the district court committed legal error when it did not find a specific level of skill in the art is equally without merit. In its opinion, the court asid "no prior inventor even regarded [the '518 patent] combination as theoretically possible." 521 F. Supp. at 1257, 226 USPQ at 42. In denying a stay of the injunction pending appeal, the evurt indicated that it had considered the skill of prior inventors, rendering it unnecessary to find some other level of skill:

In other words, it was not obvious to anyone at any level of skill in the art prior to [the '518 patent]. Any further reference, finding, or definitions of level of skill in the art, in view of [the finding that no inventor thought

the invention of claim 30 theoretically possible, would have been superfluous.

ble, would have been superinguals.
226 USPQ at 843 (emphasis in original).

The primary value in the requirement that The primary value in the requirement that level of skill be found lies in its tendency to focus the mind of the decisionmaker away from what would presently be obvious to that decisionmaker and toward what would, when the invention was made, have been obvious, as the statute requires, "to one of ordinary skill in the art." 35 U.S.C. §103; see Polaroid Corp., supra, slip op. at 5.

This court has noted instances in which a particular level of skill finding did not improperly influence the ultimate conclusion under \$103. One such instance involved a determination that an invention would have been obvious to one of the lowest level of skill, i.e., that of a layman. See, e.g., Union Carbide Corp. v. American Can Corp., 724 F.2d 1567, 1573, 220 USPQ 584, 589 (Fed. Cir. 1984); Chore-Time Equipment, Inc. v. Cumberland Corp., 713 F.2d 774, 779, 218 USPQ 673, 676 (Fed. Cir. 1983). Another involved a determination that an invention would have been nonobvious to those of extraordinary skill, i.e., other inventors in the art. See Standard Oil Co. v. American Cyanimid Co., 774 F.2d 448, 454, 227 USPQ 293, 297-98 (Fed. Cir. 1985), Kimberly-Clark Corp. v. Johnson & Johnson, 745 F.2d 1437, 1454, 223 USPQ 603, 614 (Fed. Cir. 1984).

[4] To establish reversible error based on a level of skill finding, it must be shown that that finding led to error in the ultimate conclusion. Stora was not in this case prejudiced by the district court's having looked to other inventors, rather than one of ordinary skill. Stora wastes the time of all concerned in arguing that the district court's treatment of the level of skill constituted reversible error.

(iv) Objective Evidence

As the district court noted, the parties stipulated that the properties of the product set forth in claim 30 have led to substantial commercial success for Crucible and Stora. 594 F.Supp. at 1258, 226 USPQ at 43. Incredibly, Stora attempts on appeal to denigrate that commercial success.

Stora says, without citation to the record, that there is no nexus because powder metallurgy high speed tool steels did not emerge on the market until about 1970, years after the filing date of the application that matured into the '518 patent, that substantial sales were not realized until about 1975, two years after the '518 patent issued, and that some old features contributed to commercial success.

[5] Apart from Stora's apparent and disquieting effort to renege on its stipulation, Stora is

wrong on the law. Mere passage of time may not be enough to discredit nexus with commercial success. Windsurfing International, 782 F. 2d at 1000, 228 USPQ at 565 ("Absent some intervening event to which success must be attributed, the delay in achieving the great commercial success of the claimed invention in this case does not detract from the probative value of the evidence of that success."). Stora has shown no basis whatever for its attack on the relevance of the commercial success which resulted, as Stora stipulated, from the properties of the invention.

Moreover, the district court attributed proper weight to the other objective evidence in this case, i.e., filling of a longfelt and unsolved need, failure of others, and wide acceptance and recognition of the claimed invention. Stora stipulated to that evidence and has not on appeal attempted to renege on that part of its stipulation.

Conclusion on Nonobviousness of the Invention Set Forth in Claim 30 Stora having failed to discharge its burden on appeal, the portion of the judgment based on the conclusion that the invention set forth in claim 30 of the '518 patent would not have been obvious must be affirmed.

B. Claim 4 of the '934 Patent

(a) Anticipation

Before the district court, Stora argued that Crucible's attempt to provoke an interference between the '934 patent and the application disclosure that resulted in the '518 patent, and Crucible's accompanying "same invention" arguments, were proof that the latter anticipated countered with the PTO's refusal to declare the interference.

The district court correctly determined that the events relating to the interference were not controlling because Crucible admitted that size change uniformity is inherent in the alloy disclosed in the '518 patent. The district court found, however, that inherency of size change uniformity was alone insufficient, because "the existence of this inherency alone of mere!" to not element of the claimed invention, does not fulfill the strict requirements of anticipation." 594 F. Supp. at 1262, 226 USPQ at 46.

Though the '518 patent issued after the '934 patent, it is prior art because the application on which it issued was fled earlier. 35 U.S.C. §102(e); see Hazeltine Research, Inc. v. Brenner, 382 U.S. 252, 147 USPQ 429 (1965).

Stora admits the correctness of the district court's finding that the '518 patent does not disclose hobs. That fact is itself sufficient to require affirmance of the district court's determination that the '518 patent does not anticipate claim 4 of the '934 patent.

(b) Obviousness

The district court distinguished Comstock, Frehser, Antitropic Dimensional Changes due to Heat Treatment of Ledeburitic Chrome Tool Steels (Lement), and Lement, Distortion in Tool Steels (Lement), finding that that prior art disclosed processes and alloys all of which failed to achieve the properties produced by the process disclosed in the '934 patent. The court said that Comstock failed to "attain full, or substantially full, density and uniformly distributed fine carbide particles," and that Frehser and Lement did not "even [consider] the production of tool steel through a powder metallurgy process." 594 F.Supp. at 1263, 226 USPQ at 47.

With respect to the prior art represented by the '518 patent, the district court said:

The principal benefit of the ['934] process is its elimination of the out-of-roundness traditionally characteristic in past methods of producing hobs. This, as we previously noted, is achieved through a hardening treatment phase which maximizes size treatment phase which maximizes size treatment phase which maximizes size change uniformity, a property particularly essential for hobs because of the reduction of out-of-roundness and resultant increased dimensional stability. While we find that the ['934 patented] process is [sic, would have been] not obvious.

594 F. Supp. at 1263, 226 USPQ at 47.

After evaluating all of the prior art, and the objective evidence, the court concluded that the '934 "process is [sic, would have been] not only nonobvious, but appears to be [sir, have been] revolutionary in its elimination of dimensional instability in hobs." Id.

Stora argues that the district court focused on the process disclosed and not on the product claimed in the '934 patent. When Stora made the same argument in connection with its motion to stay the injunction, the district court responded that Stora had argued that similarities in the processes evidenced obviousness in the resulting products, and that the court employed "process" in responding to those arguments of Stora. The court also pointed to the reference in its opinion to the invention of the efference in its opinion to the invention of the '934 patent as a "powder metallurgy hob, a cutting tool." 226 USPQ at 843. In addition, the court began its initial opinion with the statement that both patents "protect powder

retallurgy cutting tool products." 594 F. upp. at 1250, 226 USPQ at 37.

ther art and the '934 patent, Stora now seeks change horses. That it cannot do. First, it wild simply be unfair to re-run the race-econd, Stora has not shown that the differpres found in the processes by the district ourt would not serve to produce correspond-The burden of proving facts requiring a unparison of the processes disclosed in the melusion of invalidity was on Stora. Having depited at trial a strategy and tactic involving ng differences in the claimed product.

and the '518 patent disclosure is a hob. The sted by the district court and no basis appears or a conclusion that the court did not fully widence cited in Stora's brief was fully consid-Mer has Stera shown that reversible error esides in the district court's failure to expressy find, as Stora asserts, that the only differconsider that evidence.

In sum, Stora simply failed to prove at trial lasts requiring a conclusion that one skilled in the art and having the disclosure of the '518 patent before him would have found it obvious to have made the invention set forth in claim 4 ed the '934 patent at the time it was made.

chrimusness are distinct concepts. W. L. Gore & Associates v. Garlock, Inc., 721 F.2d 1540, 1555, 220 USPQ 303, 314 (Fed. Cir. 1983) (sting In re Sporman, 363 F.2d 444, 448, 150 USP), 452 (1966)), cert. denied, 105 S. puted fact that size change uniformity is an inherent property of the alloy disclosed in the '518 patent. That argument is unpersuasive at trial that that inherency would have been obvious to those skilled in the art when the invention of claim 4 was made. Inherency and Stora bases a major argument on the undiswhen confronted by Stora's failure to establish 73. 172 (1984).

each claim must be separately presumed valid. 35 U.S.C. §282. Third, as previously noted, claim 4 includes all of the limitations of claims court failed to give full import to Crucible's disclaimer of claims 1 and 2 is without merit. cible's reasons for the disclaimer (i.e., that I and 2 and must be viewed as though it had First, it is based on conjecture respecting Cru-Second, it ignores the statutory provision that Similarly, Stora's argument that the district Caucible recognized invalidity of those claims). originally been an independent claim. onelusion on Nonobeiousness of the Inven-

arguments touching on the district court's va-fidity conclusion and find them without merit. We have considered each of Stora's other

Because Stora has not discharged its burden on appeal, the portion of the judgment based on the conclusion that the invention set forth in claim 4 of the '934 patent would not have been obvious must be affirmed

(2) Inequitable Conduct

possible support for attorney fees in the event it prevailed before the district court. Having waived the assertion at trial, Stora may not resurrect it on appeal. Cf. Laitran Corp. v. Cambridge Wire Cloth Co., 785 F.2d 292, 295, 228 USPQ 935, 937 (Fed. Cir. 1986) (allega-Comstock patent was not material and that Stora had therefore failed to carry its burden That finding has not been shown to have been tion of fraud cannot be raised for the first time in this court). Moreover, in its supplemental on inequitable conduct. 226 USPQ at 847. The district court correctly determined that Stora had waived its inequitable conduct de-1264-65, 226 USPQ at 48; see also 226 ÚSPQ at 844. Stora reserved that matter only as fense to validity at trial. 594 F. Supp. opinion, the court expressly found clearly erroneous.

(3) Increased Damages - Willful Infringement

court did not make an express finding on willful, but limited itself to saying it was unpersuaded that "the evidence including Dr. Hellman's memorandum is sufficient to confacts found by the district court mandated an ultimate finding of willful infringement and that such a finding would "[compel] an award of increased damages and attorney fees." The whether Stora's infringement was or was not In its cross-appeal, Crucible argues that the stitute a basis for treble damages.

there are only two possibilities: the infringement here was either willful or it was not. If a ous, the only alternative is a finding that it The underlying facts are undisputed, and the sole question at this point is whether an ultimate finding of non-willful infringement would be clearly erroneous in light of those underlying facts. If we determine that a findby the undisputed underlying facts, we do not thereby engage in de novo fact finding, for ing of non-willfulness would be clearly erroneous, and that a finding of willfulness is dictated finding that it was not would be clearly errone-

the Comstock reference to the PTO constituted inequitable conduct was also rejected by the PTO. See In re Holtz, 224 USPQ 714 (Bd. App. 1984). Stora's allegation that Crucible's failure to cite

Sweden lowed claims, before issuance of the '518 patent, and long before Stora commenced its inofficials, during which Crucible warned Stora after a meeting between Crucible and Stora entering a necessary and foreordained finding serves no useful purpose and merely wastes Dr. Hellman. The memorandum was written that its products would infringe certain alwas. In that circumstance, a remand to the district court for the purely ministerial task of Before the district court, Crucible relied mainly on a February 5, 1973 internal memorandum of the chief technical expert of Stora, fringement in the United States.

Up to now our efforts have naturally been so that we can choose the right court.

mentioned new patent claims in mind:

- 2) Search for prior art in the remaining Patent Office (Curtis, Morris & Safford).
 - patent literature (patent section, Falun).
- literature (lab., Soderfors).

in the USA. If the new patent claims, on the other hand, should be judged to be valid, we will be closed out of the American market

for the foreseeable future.

are found by them, we can bring an action against Crucible and begin to sell ASP-steel

art has been started and the material that has come to hand will be evaluated at the latest by April 15th If enough solid prior art

will work together with ASEA. In all likelihood, we will also turn to IIB (The Intera-Here, as in the other patent questions, we tional Patent Institute in The Hague) for certain types of research.

> In the USA and Canada, the conditions are more difficult than in other countries because of differences in the patent laws. In

these other countries, we will sell ASP-steel without waiting for the results of the respec-

tive reports.

USA but until then we must lie low. This will not involve any noteworthy delay in the Holtz claims as soon as they are made public. As soon as we have filed the former suit, we can begin to sell ASP-steel in the introduction of ASP-steel as we must first vens-patent be declared invalid. The same measures will be taken against the new will request a "declaratory judgment action"; that is, we will request that the Stebuild up a stock.

steel composition. This protects, in other words, the product and he who imports such

products to the USA infringes [on the patent]. We are of the opinion in the meantime, that the patent is not tenable. See the special

memo on this.

All the claims refer to: (As) an article of manufacture, a metal body constructed of compacted particles of high speed tool or die

"Stevens" USPat 3.561.934

ing 2 or at most 3 documents which taken together make it "obvious to the profession-al" that good powder steel can be made and how. An eventual trial will come to be During the search for oppositions, we but instead we have to concentrate on findwill not come to find directly lethal material,

> Crucible made it fully clear that they will sue us for patent infringement as soon as

bility is, in the meantime, unsure and lies a Crucible declared itself willing to discuss a license agreement which would only cover (i) a suggestion which was not ties can eventually force them to sell licenses tion to make a similar product. Theis possilong way in the future. On the other hand, to at least one company which is in a posisteel in the USA. Apparently they have fied us that at least for the present they do not intent to sell licenses to anybody. If their product is successful, the American authorithey detect that we have begun to sell ASPgiven the same information to our potential customers in the USA. Further, they notianswered.

American courts have divergent attitudes toward patents and if this question goes to court, it is important that we take the initiative

measures are being taken now with the above concentrated on preparations to get the Stevens-patent declared invalid. The following

we are infringing on them by selling ASP-steel in the USA. We have for now no possibilities for checking this, but must as a

claims, based on an old patent application, have now been approved in the USA and that these patent claims are so worded that

Crucible maintains that additional patent

memorandum read:

Summary.

matter of course proceed [on the assumption] that it is true. A new search for prior

- 1) Search for prior art in the American
- 3) Search for prior art in the technical
- 4) Evaluation of the found material. Shall be finished by April 15, 1973 at the latest.

If the evaluation gives the right result, we

fier the appeal to the court of appeals, the dgment will be delayed a further 6-12 enths and the costs will rise by 10 to 15 cousand dollars. We must count on having he damages that we can be assessed if we are has been guessed to be 5 or possibly up tion if a compromise were not to be utred: A judgment in the district court if in all likelihood take around two years the cests will certainly be \$50,000, thaps up to \$100,000 dollars, of which c main part will be spent at the beginning pay our costs irrespective of the outcome. the action and when the trial itself begins. timony. Our American patent lawyer has essed at the time and cost for such an rided on the credibility of the experts'

alid, then the American market is closed to If the evaluation of the forthcoming oppo-itions prior art should indicate that the new atent claims in the Holtz application are , 111% of the value of the sales. s for the foreseeable future."

rely "charted a strategy to check patent idity; contest patent validity; and, in the wess, to get [Stora's] products into the Unit-States market," and (3) "assessed the costs of prospects of litigation upon the further comption that "the evaluation give the right aft." 594 F. Supp. at 1264, 226 USPQ at nould be infringing the allowed claims, as to ith assumption Dr. Hellman stated "we re no possibilities for checking; (2) unred the patents valid and infringed and n: (1) was based on Stora's assumption that the district court found that the memoran-

The district court also refused to award the damages because it found that Stora igated close patent issues saying those issues resented substantial questions upon which

The quoted paragraphs are reproduced exactly s they appear in the translation set forth in the pyendix. [Ed. Note: Printing restraints prevented he exact reproduction of these paragraphs. For their ware reproduction, see the Court's slip opinion.]

enly referred to §284 instead of §285 in its refusal to find this to be such an "exceptional case, under 35 U.S.C. §284 (1982) [sic], to justify the award of treble damages... 594 F. Supp. at 1264, 226 USPQ at 48. ing that Crucible had not overcome Stora's replied that the patents were invalid in view of Comstock and a 1964 Holtz article. Concludclaims of good faith, the district court mistakwhen Crucible told Stora of the patents, Stora

pose inceased damages that may accompany a finding of willful infringement does not mean that the court found the infringement not willful. See, e.g., S. C. Johnson & Son, Inc. v. Carter Wallace, Inc., 781 F.2d 198, 201, 228 USPQ 367, 369 (Fed. Cir. 1986). Though the appears that the court felt that if it found Stora's infringement willful it would have be so, it may be said that the court implicitly found Stora's infringement not willful. If that implicit finding was made, it was clearly been required to award treble damages. If that parties have proceeded on appeal as though the district court had found Stora's infringement not willful, all the district court decided was that it would not award treble damages.

course, the guidance on the law of willful patent infringement provided by this court The district court did not have before it, of since the time of the trial. In Underwater Devices, this court stated: erroneous.

Where, as here, a potential infringer has actual notice of another's patent rights, he alia, the duty to seek and obtain competent legal advice from counsel before the initiation of any possible infringing activity. [Citations omitted.] has an affirmative duty to exercise due care to determine whether or not he is infringing. Such an affirmative duty includes, inter

Id. at 1389-90, 219 USPQ at 576 (emphasis in

willfulness. King Instrument Corp. v. Otari Corp., 767 F.2d 853, 867, 226 USPQ 402, 412 (Fed. Cir. 1985), cert. denied, 106 S. Ct. 1197 (1986) (court "should always look at the totalinfringement was not willful. See, e.g., Kori Corp. v. Wilco Marsh Buggies & Draglines Inc., 761 F.2d 649, 656, 225 USPQ 985, 989 ways and alone dictate a finding that the ity of the circumstances"). Conversely, that an opinion of counsel was obtained does not aloriginal).10 Though it is an important consideration, not every failure to seek an opinion of competent counsel will mandate an ultimate finding of

course, one on validity, there being no liability for infringment of invalid claims. 10 The determination referred to includes,

Kloster Speedsteel AB v. Crucible Inc.

finding of non-willfulness clearly erroneous and compels the only alternative finding, i.e., (Fed. Cir.), cert. denied, 106 S. Ct. 230 (1985); Central Soya Co. v. George A. Hormel & Co., 723 F.2d 1573, 1576-77, 220 USPQ 490, 492failure to seek advice of counsel, makes any 93 (Fed. Cir. 1983). In the present case, the totality of the circumstances, including the that Stora's infringement was willful.

cable findings [the court] clearly articulated and would thus, as above indicated be clearly erroneous. CPG Products Corp. v. Pegasus Luggage, Inc., 776 F.2d 1007, 1015, 227 USPQ 497, 502 (Fed. Cir. 1985). Stora has district court, that the patents were valid and would be infringed). Those findings fully supnot shown to have been clearly erroneous the underlying findings (e.g., that Stora proceeded with its infringement on the assumption, as stated in the memorandum and found by the port the present determination that an ulti-mate finding of non-willfulness would be On the undisputed facts of record, an ultimate finding that Stora's infringement was not willful would be "incompatible with the appliclearly erroneous.

claims and Crucible's warning, or at any time before it began this litigation. Stora's silence ney-client privilege, would warrant the con-clusion that it either obtained no advice of counsel or did so and was advised that its importation and sale of the accused products Stora has not even asserted that it sought on the subject, in alleged reliance on the attorwould be an infringement of valid U.S. advice of counsel when notified of the allowed patents.

contrary to Stora's own internal memorandum." relate to a reason for infringing, it cannot serve as a basis for finding Stora's infringement not willful. That Stora's officials told Crucible, as counsel before the onset of infringement and is part of that "strategy", that they thought the cannot substitute for the advice of competent fringing products in the hope that a court fringing hold the patent invalid, or that Crucible would grant a license to escape litigation. The vould grant issued almost a full year before the memorandum as "merely [evidencing] an aggressive strategy of contesting patents" may patents invalid in view of certain prior art Stora began its infringement in the United States. The district court's characterization of a non-lawyer, clearly shows that Stora intentionally undertook the risk of importing in-The internal memorandum of Dr. Hellman,

increased damages are not awardable for the infringement. If infringement be willful, increased damages "may" be awarded at the discretion of the district court, and the amount of increase may be set in the exercise of that If infringement be accidental or innocent, same discretion.

ages appropriate. Nor has it determined what level of increase, if any, would be appropriate. We therefore express no view on whether the district court, in the exercise of its discretion, as a part of its determination of the damage issues it reserved for later trial. See CPG Products Corp., 776 F.2d at 1015, 227 USPQ therefore, mandate an award of increased damages. The district court has not determined whether, if Stora's infringement were found willful, it would deem increased damshould or should not award increased damages Our indication that Stora's infringement must on this record be found willful does not,

(4) Attorney Fees

displayed in pretrial and trial stages, by counsel or party, may render the case exceptional "exceptional", the district court declined to award treble damages and did not mention either §285 or attorney. fees per se, Willfulness sary and outcome-certain law suit, it may make the case so exceptional as to warrant attorney fees under §285. Similarly, bad-faith of infringement relates to the accused infring-er's conduct in the marketplace. Because that conduct may be seen as producing an unneces-Having determined that this case was not

nation is that a case is exceptional, the election to grant or deny attorney fees is reviewed tive Metals and Alloys Corp. v. ESM, Inc, 769 F.2d 1578, 1582-83, 226 USPQ 821, 824 is not exceptional, the fact findings underlying that determination are reviewed under the clearly erroneous standard. When the determiunder the abuse of discretion standard. Reac-When a court declines to award attorney fees on the basis of a determination that a case under §285.

We join the district court's concern that awards of increased damages and attorney fees (Fed. Cir. 1985)

infringe, and employs the judicial process with no solidly-based expectation of success, can hardly be surprised when his infringement is found to have been willful. the reference in the patent law to increased damages seeks to prevent. An alleged infringer who intentionally blinds himself to the facts and law, continues to advice of counsel, thorough investigation of validity ed prior art, or similar factors, is the type of activity and infringement, discovery of more pertinent uncitKloster Speedsteel AB v. Crucible Inc.

atiorney fees imposed solely because a court subsequently holds that belief unfounded, parthe validity of patents believed in good faith to be invalid. A party who has obtained advice of competent counsel, or otherwise acquired a basis for a bona fide belief that a patent is invalid, can be said to serve the patent system in challenging that patent in a law suit conducted fairly, honestly, and in good faith. Such a party should not have increased damages or neularly when the issues may be fairly denot be allowed to thwart efforts to challenge seribed as "close"

the patentee. See Standard Oil Co. v. American U. Spannid Co., 774 F. 2d 448, 455, 227 USPQ is 293, 298 (Fed. Cir. 1985); Milgo Electronic Co.p. v. United Business Communications, Fluc., (23 F. 2d 645, 667, 206 USPQ 481, 498 start, (23 F. 2d 645, 667, 206 USPQ 376 (1980). Because there is here no tion and discretion in conjunction with the ment was so willful as to render the case exceptional, we leave the question in the present case to the district court's determinaexpress finding on whether Stora's infringeis exceptional, and a court may thereupon exercise its discretion to award attorney fees to As above indicated, a court may find that in all the circumstances an infringement was so willful as to justify a determination that a case

question also to such further proceedings as those findings. There having been no denial of attorney fees per se under §285, we leave that pressly award or refuse attorney fees under §285, there is no basis for this court's review of at trial. Those findings would be applicable in considering a request for attorney fees under ing treble damages, found that Stora's claims of good faith were not overcome by the evidence, and that the patent validity issue presented substantial questions on which there had been honest disagreement in the PTO and \$285. Because the district court did not ex-Respecting other possible bases for awarding attorney fees, the district court, in discussthe district court may deem appropriate. reserved damage trial.

(4) The Injunction "

It is undisputed that Kloster was created immediately after conclusion of the trial and

Each of the defendants, their officers, agents, Each of the defendants, their officers, agents, servants. employees, successors in interest and assigns, and any other person, corporation, or organization acting in concert with them is herby permanently enjoined and restrained during the life of the respective U.S. patents identified above from the making, using or selling of products infringing claim 30 of U.S. Patent No. 3,746,518 in relaim 4 of U.S. Patent No. 3,54, and from for claim 4 of U.S. Patent No. 3,54, and from 13 The injunction reads:

the merits on appeal, Kloster is without standing to appeal from the judgment on the merits. The brief it filed on the merits has accordingly been disregarded.

court nor argued that Stora is incapable of contesting

inducing or contributing to the making, using or selling of such products.

If Kloster at no time sought to intervene under Fed. R. Civ. P. 24(a).

I' Having neither intervened before the trial

continuation of those efforts by appeal to this court, do not reflect the highest ethical standards of either the business community or the and force Crucible to a second lawsuit, and the court's decision, it purchased the facility Stora used to manufacture the products found to of any possible injunction by divesting itself of the effort of Kloster to evade the injunction and thus gain freedom to continue the infringement infringe. The effort of Stora to evade the effect its facilities for producing infringing products, long before judgment, and

On September 4, 1984, i.e., fifteen days before the district court issued its opinion, Crucible moved to join Kloster as a party pursuant to Fed. R. Civ. P. 19(a) and 25(c).

tober 11, 1984, the court issued its injunction enjoining infringement by Stora and its "sucshould not be joined as a party and that "successors in interest and assigns" should be deleted from the proposed injunction. On Ocits "successors in interest and assigns" would be enjoined. On October 5, 1984, Kloster appeared at a status conference and argued that it 1984, indicated that infringement by Stora and USPQ at 846.

e.g., Zenith Radio Corp. v. Hazeltine Re-gearch Inc., 395 U.S. 100, 108-112, 161 USPQ 577, 580-82 (1969); see also United States v. L717 Corp., 746 F.2d 51, 53-54 n. 5 (D. C. Cir. 1984). ¹⁴ See 9 J. Moore, B. Ward & J. Lucas, Moore's Federal Practice [203.06, at 3-23 (1985); see, [7] Kloster was not a party when the judgment was entered. Nonetheless, because it must be deemed a successor in interest or an assign, it is bound by the injunction and may

Kloster attempted to carry water on

that, before the

legal profession.

denying the motion, the court cited Regal Kritusear Co. v. National Labor Relations Board, 324 U.S. 9 (1944) as authority for its cessors in interest and assigns." The court deemed it unnecessary to decide the joinder tion by deleting "successors in interest or assigns," or by specifically excluding Kloster. In use of "successors in interest and assigns." 226 question. Kloster moved to modify the injunc-The court's opinion issued September 19,

shoulders before the district court. It esfectively

tion's terms. In all events, the district court correctly intended that Kloster be bound by the was bound, when it sought modification of the ter would lack standing to contest the injunccific exclusion. It effectively asserted that it injunction, because absent such assertion Klosasserted it was not bound, when it contested joinder, declined intervention, and sought speinjunction.

be continued by or against the original party and the judgment will be binding on his successor in interest, even though he is not named... Gooding 7A C. Wright & A. Miller, Federal Practice and Procedure, 81958, at 664 (1972); see also, Minnesota Minnig & Manufacturing Co. v. Eco Chem Minnig & Manufacturing Co. v. Eco Chem 10c., 757 F. 241256, 1263-64, 225 USPQ 350, in 10c., 757 F. 261256, 1263-64, 225 USPQ 350, in 10c., 757 F. 261256, 1263-64, 225 USPQ 350, in 10c., 757 F. 261256, 1263-64, 225 USPQ 350, in 10c., 757 F. 261256, 126126, 25126 determination that transferee's presence would does not require that anything be done after an most significant feature of Rule 25(c) is that it interest has been transferred. The action may At the status conference, the court said, "the facilitate conducting the litigation)).

effective to bind those in privity with the defendant. In Regal Knitwear Co., the Court In Golden State Bottling Co. v. National Labor Relations Board, 414 U.S. 168, 177-80 meni order involved, and went on to clarify the absence of conflict between Rule 65(d) and Civil Procedure." Kloster disregards and distorts the thrust of Regal Knitwear Co., in which the Supreme Court affirmed a denial of said that "successors and assigns" may not be impermissible under Rule 65(d) and may be On appeal, Kloster says that the district court "sought to evade the limitations" of Fed. R. Civ. P. 65(d)" when it inserted "successors in interest and assigns." Kloster quotes from Regal Knitwear Co., 324 U.S. at 14: "The did not have a successor or assignee before it. (1973), it affirmatively held that the successor party there before it was subject to the enforcement order of course may not enlarge its scope beyond that defined by the Federal Rules of a motion to strike "successors and assigns" and terms "successors and assigns' in an enforceorders binding successors and assigns.

In Regal Knitwear Co., following the sentence quoted by Kloster, the Court wrote:

injunction. If they are, by that fact they are brought within the scope of contempt proseeks to evade an order or may come within the prescription of persons in active concert or participation with them in violation of an instrumentalities through which defendant ceedings by the rules of civil procedure." Successors and assigns may, however,

The relation here is not disputable. Kloster is the successor-operator of Stora assets used to relation between the defendant and the successor which might of itself establish liability within the terms of Rule 65." 324 U.S. at 15. emphasis "is not merely to succession, but to a 324 U.S. at 14. The Court stressed that the produce infringing products.

are irrelevant. Kloster also argues that it should be entitled to litigate the case on the merits before being erjoined. The arguments bound because it was not a party, disregarding its resistance to Crucible's motion to join it. Private agreements between Kloster and Stora agreement between Klöster and Stora that Kloster accepted no liability for Stora's infringement. Kloster argues that it cannot be it a chance to show it was not in privity, and cannot bind it with Stora solely because it purchased Stora's infringing facility, citing an Kloster argues, however, that the district court "avoided giving any consideration to the relationship" between Kloster and Stora, did not "find" it in privity with Stora, did not give are spurious.

of a defendant-infringer. See, e.g., Brunswick Corp. v. Chryster Corp., 408 F.2d 335, 338, 161 USPQ 65, 67 (7th Cir. 1969); J. R. Clark Co. v. Jones & Laughlin Steel Corp., 288 F.2d Co. v. Jones & Laughlin Steel Corp., 288 F.2d Co. y. 280, 129 USPQ 97, 98-99 (7th Cir.), cert. 279, 280, 129 USPQ 97, 98-99 (7th Cir.), cert. Noma Lites, Inc., 231 F.2d 662, 663, 109 Noma Lites, Inc., 231 F.2d 662, 663, 109 USPQ 26, 27 (2d Cir. 1956). The applicable reasoning was well illustrated in J. R. Clark after a suit begins, a nonparty acquires assets Courts have repeatedly found privity where,

order to bind him, he might, pending that suit, alienate that right to another with the If a third party may thus come into the acquisition of rights involved in pending litigation without being bound by the final judgment, and require a suit de novo in same result, and a final decree bearing fruit could never be reached

¹³ Thus it was not necessary that the court rule on Crucible's motion to join Kloster. " Rule 65(d) provides:

Every order granting an injunction ... is binding only upon the parties to the action, their officers, agents, servants, employees, and attorneys, and upon those persons in active concert or participation with them who receive actual notice of the order by personal service or otherwise.

[&]quot;Quoting part of a statement out of context,

while ignoring a portion that totally undermines the proposition for which the quote was offered, reflects a reprehensible and unprofessional derelicition of the duty of candor owed the court. See Model Rules of Professional Conduct Rule 3.3 (1983), accord Model Code of Professional Responsibility DR 7-102(A)(2), DR 7-106(B)(1) (1981).

230 USPQ

288 F.2d at 280, 129 USPQ at 98 (quoting G. & C. Merriam Co. v. Saalfield, 190 F.2d 927, 932 (6th Cir. 1911)).

that it can avoid the injunction by simply refraining from infringement. That it desires to continue Stora's infringement appears the only possible basis for its strenuous effort to Nowhere does Kloster appear to recognize evade the injunction.

The district court's denial of Kloster's motion to modify the injunction is affirmed.

CONCLUSION

defense, is affirmed. To the extent that the district court's refusal of treble damages rested on an implicit finding that Stora had not willfuly infringed, that finding was clearly ages and attorney fees is remanded. The denial of Kloster's motion to modify the injunction is erroneous, and the request for increased dam-The judgment refusing to hold invalid claim 30 of the '518 patent and claim 4 of the '934 paent, and refusing the inequitable conduct

AFFIRMED IN PART AND REMAND-ED IN PART affirmed

Court of Appeals, Seventh Circuit

In Re Innovative Construction Systems, Inc.

Decided June 17, 1986 No. 85-1142

UNFAIR COMPETITION

Fleading and practice in courts — Judg-ments (§53.53)

Trade secrets - In general (§68.901)

formulas were disclosed to former employee in confidence and under pledge of secrecy, and that competitor would have difficulty replicating formulas without resorting to improper crets action, from which jury could infer that plaintiff took reasonable precautions to limit knowledge among its employees of formulas for its simulated brick paneling, that such means, supports reversal of judgment notwith-Evidence, in misappropriation of trade sestanding verdict.

2. Accounting - Damages - Trademarks and unfair competition (§11.258)

Jury's award of \$225,000 for misappropria-

testimony of expert witness whose valuation of plaintiff's business at \$246,000 was found to be virtually without foundation, is not reasonable.

3. Accounting — Damages — Trademarks and unfair competition (§11.258)

cient to warrant award of punitive damages, since breach of faith underlies every trade secret claim, but rather award of punitive damages must be based on demonstration that defendant also acted wantonly, wilfully, or in crets claim, of breach of faith alone is insuffi-Showing, in misappropriation of trade sereckless disregard of plaintiff's rights. Appeal from District Court for the Western

Action by Innovative Construction Systems, District of Wisconsin, Shabaz, J

Inc., against Bowen Supply, Inc., Sunbelt Brick Company, Inc., Harold Bowen and Phillip Strand, for misappropriation of trade secrets, breach of implied covenant of good faith under Wisconsin Law, unfair competition, and antitrust violations. From judgment for defendants, plaintiff appeals. Reversed and remanded. Earl Munson, Jr. and LaFollette, Sinykin, Anderson & Munson, both of Madison, Wisc., for appellant. Edwin J. Hughes and Stafford, Rosenbaum, Rieser & Hansen, both of Madison, Wisc. for appellee. Before Eschbach, Esterbrook, and Ripple,

Circuit Judges.

Eschbach, Circuit Judge.

award of compensatory damages was excessive, and (3) the award of punitive damages in this diversity action! governed by Wisconsin law are whether (1) the defendants misappropriated the plaintiff's trade secrets (2) the The primary questions presented on appeal

to federal district court. The district court had jurisdiction under both 28 U.S.C. § 1332(a), owing to the diverse citizenship of the parties, and under 28 U.S.C. § 1331, based on Innovative's various federal claims. We have jurisdiction pursuant to 28 U.S.C. The plaintiff filed a petition in United States Bankruptcy Court for the Western District of Wisconsin requesting relief under Chapter 11 of the Bankruptcy Code, 11 U.S.C. §§ 1101–1174. It then initiated adversary proceedings in that court against the defendants, which proceedings were transferred

will reverse the judgment notwithstanding the verdict, and affirm the orders granting a new trial on compensatory damages and denying and denied the award of punitive damages in was warranted by the evidence. The district withstanding the verdict, and in the alternative, a new trial on compensatory damages, its entirety. For the reasons stated below, we court granted the defendants judgment notpunitive damages.

appeal citizens of Georgia. (Hereinafter, unless otherwise indicated, the term "Bowen Supply" also refers to Sunbelt, Harrold Phillip Strand were at all times relevant to this director of Sunbelt. Both he and defendant chairman of the board of Bowen Supply and a endant Harrold Bowen is president and novative") is a Wisconsin corporation with its dants Bowen Supply, Inc. ("Bowen Supply") and Sunbelt Brick Company, Inc. ("Sunbelt") are Georgia corporations with their principal places of business in Americus, Georgia. De-Innovative Construction Systems, Inc. ("Inprincipal place of business in that state. Defen-Bowen, and Phillip Strand.)

flexible in that the proportion of aggregate to water could be modified slightly to account for composed of slag aggregate, cement, bonding agent, and slurry, to a four-by-eight-foot backing board. The resulting product was called "Panl Brick." The commercial value of the process consisted of the formulas that set forth for each layer. These formulas were somewhat the precise mixture of raw materials needed building industry. Their product proved unmarketable, and Masonry Siding ultimately declared bankruptcy. In 1973, Riley and Hammon formed Innovative. Over the next veloping a new process for simulating brick paneling. The method they eventually developed required the application of three layers, len Hammon, a dentist, along with several others, formed Masonry Siding, Inc., to manufacture simulated brick panels for the homeseveral years they spent considerable time de-In 1967, John Riley, an attorney, and Dorchanges in temperature and humidity.

ply. The agreement gave Bowen Supply the exclusive right to sell Panl Brick to the manuforts to local home-improvement centers and to some outlets for national retailers. On November 15, 1977, Innovative entered into a distribution agreement with defendant Bowen Sup-Innovative initially limited its marketing ef-Hampered by insufficient operating capital,

tributor of Panl Brick, and from late 1978 factured housing market. Bowen Supply became, and remained, the only nationwide disthrough 1981, sold virtually all the Panl Brick that Innovative could manufacture.

Duncan Knapp, executive vice-president for sales and marketing at Bowen Supply from 1973 to 1980, stated, however, that Bowen Supply did in fact make an offer based on royalties, and that it was disappointed when acquiring Innovative. On June 18, 1979, the parties met to discuss the matter. The course of their negotiations is disputed. According to annual sales over a period of three to five years, the total amount of which was estimated to be \$400,000.00. Bowen Supply claims that Bowen Supply was at one time interested in ೪ purchase Innovative for royalties based on no offer based on royalties had been made. Riley's testimony, Bowen Supply offered Innovative did not accept the offer.

marketing officer for Bowen Supply at the time, and spent several hours discussing employment opportunities at Bowen Supply. Both Strand and Howell testified that they did lishing a manufacturing facility to produce simulated brick for Bowen Supply in Georgia. Howell stated further that Bowen Supply at went to Georgia to talk with Stewart Howell, a not then discuss the possibility of Strand estabthat time had also not entered into an agrecduties, Strand was often in communication with Bowen Supply. In October of 1980, Bowen Supply told Strand that it was impressed with his abilities and would be interested in offering him a position should he leave Innovative. In mid-February of 1981, Strand came plant manager. In the course of his ployed defendant Strand, who eventually be-In late September of 1979, Innovative emment to employ Strand.

or, if that proved unfeasible, of placing Strand in some other position. Strand indicated that for Bowen Supply. According to Howell's testimony, he had virtually given Strand a verbal guarantee of employment before Strand left for ply's interest in setting up a manufacturing plant in Georgia under Strand's supervision he too was interested in organizing a facility Howell that he would no longer be working gave Innovative notice that he was leaving for Innovative. Howell reiterated Bowen Sup-On the 15th or 20th of March 1981, Strand their employ. On March 31, Strand informed

Supply, and that, if he were to establish a vative was April 2, 1981. He knew then that he would soon assume a position with Bowen Strand's last day of employment with Inno1777

case that this Court has personal jurisdiction ever the defendants.

in this case comports with notions of fair play and substantial justice. Stuart v. Spademan, 772 F.2d 1185, 1191 (5th Cir. 1985) (quoting International Shoe Co. v. Washington, 326 U.S. 310, 316 (1945)). The Court must consider the burden on the defendant[s], the interest of the several states. Stuart. 772 F.2d at 1191: Asahi, 480 U.S. at 113. The burden is on the defendants to present a compelling case that jurisdiction would be unreasonable. Burger King Corp. v. Rudzewicz, 471 U.S. 462, 477 (1985). interest of the forum state, the plaintiff's interest in obtaining relief, and the shared under the Fifth Circuit's test in Asarco is whether the exercise of personal jurisdiction the next issue the Court must confront

or employees in Louisiana. None of their relevant witnesses or documents is here. severely burdensome for either OKI America or OKIDATA to be forced to defend a mor OKIDATA is licensed or registered to do agent for service of process in the state. In addition, neither defendant has any facilities The defendants contend that it would be suit in this District. Neither OKI America business in Louisiana and neither has any

interest in seeing that its resident, the Laitann Corp., obtains relief for its injuries. Indeed, the Fifth Circuit has found that a injuries that occur within its borders at the hands of nonresidents. INNS, Inc., 884 F.2d state has a significant interest in redressing has no interest in this suit because it arises under sederal patent law. Plaintiss, on the other hand, contends that Louisiana has an They do not manufacture products here. Defendants further argue that Louisiana

ing convenient and effective relief in isiana or elsewhere. Plaintiff contends that many of its fact witnesses and many of its decuments are located in Louisiana. Plaintiff argues that it has a strong interest in obtainprincipal place of business in the Eastern District of Louisiana. The inventor of the ceased, but a former resident of Louisiana. Furthermore, plaintiff feels the effects of whether the infringement takes place in Louinfringement of its patent in Louisiana, Plaintiff argues that it would serve justice to try this case in Louisiana because plaintiff is a corporation with its headquarters and patent that plaintiff claims has been infringed was James M. Lapeyre, now de-Louisiana.

Having considered the questionable burden on the defendants, and the significant interests of Louisiana and the plaintiff, this Court finds that the exercise of jurisdiction

venue would be more convenient than Louisiana for several reasons: OKI America has

two facilities in California, one of which will

OKI America contends that the California

play and substantial justice. Therefore, this Court finds that the exercise of personal jurisdiction over the defendants is appropriby this Court comports with notions of fair ate under iurisdiction

B. Improper Venue

motion for dismissal of this action under Fed. R. Civ. P. 12(b)(3) on the grounds that venue is not proper in this district. The defendants contend that the case should be tried in the Eastern District of California, where they have filed a related declaratory judg-This Court must now consider defendants

The relevant statute is 28 U.S.C. § 1404, ment action.

which reads in relevant part:

(a) For the convenience of parties and witnesses, in the interest of justice, a district court may transfer any civil action to any other district or division where it might have been brought.

The burden is on the plaintiff to establish

that this district is the proper venue. C. Wright and A. Miller, Federal Practice and Procedure § 3826 (1992).
Plaintiff argues, under 28 U.S.C. § 1404, that the Eastern District of Louisiana is convenient for the parties. It is the site of the fact witnesses and relevant documents. In addition, it is closer to the headquarters and principal place of business of OKI America, Inc., OKIDATA and Comp USA than is the alternate venue, the Eastern District of California. Plaintiff argues that OKI America's declaratory judgment should not have been filed in California, but should have been brought as a compulsory counterclaim in this Court, since it involves the same issues that are involved in this case. plaintiff's headquarters and principal place of business. It is the location of plaintiff's

Plaintiff argues that a shift of the litigation to California would be convenient only for the California attorneys who represent OK! America. Plaintiff argues that the Court should follow the first to file rule. Kerotest Mfg. Co. v. C-O-Two Fire Equipment Co., 342 U.S. 180 [92 USPQ 1]

tram and venue is proper in that district; Laitram is registered with the California OKI America argues that the court in California has personal jurisdiction over Lai-Secretary of State to do business in California, and has a registered agent and a secured creditor in California. (1952).

tributor in California, and it has a California ments, OKI America has an authorized disfacility responsible for distribution of 30% of

and would eliminate duplicate efforts by the ferring this case to California because then both cases would be tried in the same forum, which would ensure consistent judgments the supposedly infringing printers. Finally, OKI America argues that the interests of justice would be served by transparties and the two courts.

California. The plaintist is a resident of this forum: the defendants, located principally in New Jersey, can defend themselves as easily [2] This Court finds that this forum is more convenient that the Eastern District of

in Louisiana as in California.

Accordingly,
IT IS ORDERED that the motion of defendants, OKI America, Inc. and OKI-DATA, to dismiss plaintiff's complaint pursuant to Fed. R. Civ. P. 12(b)(2) and 12(b)(3) be and is hereby DENIED.
IT IS FURTHER ORDERED that the motion of OKI America, Inc. and OKI-motion of OKI America, Inc. and OKI-DATA, to transfer this action to the Eastern

proceedings against it, in the event the case is severed and transferred, be and is hereby DENIED AS MOOT. District of California pursuant to 28 U.S.C. 1404(a) be and is hereby DENIED. IT IS FURTHER ORDERED that defendant Comp USA's motion to stay the

Court of Appeals, Federal Circuit

In re Rijckaert

Decided November 23, 1993 No. 93-1206

PATENTS

1. Patentability/Validity — Obviousness — Relevant prior art — Particular inventions (§115.0903.03)

Board of Patent Appeals and Interferences erred by affirming rejection, on grounds of obviousness, of claims for apparatus to record and reproduce electric signal on magnetic record carrier, since references relied upon to reject claims do not provide basis suggest, or render obvious claimed invention, and since applicant's burden to rebut rejecfor prima facie determination of obviousness, in that prior art relied upon, either individually or when combined, does not disclose,

tion of obviousness does not arise until prima facie case has been established.

Appeal from the U.S. Patent and Trademark Office, Board of Patent Appeals and

and Joannes A.E. Van Der Kop. From decision affirming final rejection of claims, applicants appeal. Reversed. Application for patent, serial no. 07/345,396, filed by Albert M.A. Rijckaert Interferences.

Lee E. Barrett, associate solicitor, PTO (Fred E. McKelvey, solicitor, with him on brief), for appellee. Edward W. Goodman (Algy Tamoshunas, with him on brief), Tarrytown, N.Y., for appellant.

Before Lay, senior circuit judge (Eighth Circuit, sitting by designation), and Mayer and Lourie, circuit judges.

Lourie, J.

Office (PTO) Board of Patent Appeals and Interferences affirming the final rejection of claims 5-12, all of the pending claims in patent application serial no. 07/345,396, as being unpatentable under 35 U.S.C. § 103 being unpatentable under seried upon (1988). Because the references relied upon to reject the claims do not provide the basis for a prima facie determination that the Albert Rijckaert and Joannes van der Kop ("Rijckaert") appeal from the decision of the United States Patent and Trademark claimed invention would have been obvious,

BACKGROUND

we reverse

er. Independent claim II is drawn to a recording apparatus and it specifies a relationship between time expansion or compression and three variables α , n, and M. Claim 11 The patent application at issue relates to an apparatus for recording and reproducing an electric signal on a magnetic record carri-

11. An apparatus for recording an electric signal on a magnetic record carrier in tracks which are inclined relative to the longitudinal direction of said record carrireads, in pertinent part: er, comprising: ...

provid[ing] a time expansion or time compression of the signal blocks by a factor of $\alpha^*n/(180^*(M+1))$, where α is the wrap-[a] time-base correction circuit

28 USPO2d

interval does not record a signal on the record carrier, said time interval being defined by those instants at which two consecutive track pairs are recorded by ping angle of the record carrier around the head drum and differs from 180°, n is the ber of times within a specific time interval that a head pair which comes in contact with the record carrier during said time number of head pairs, and M is the num-

us for reproducing a recorded signal and it time compression or expansion and the three variables α_i in and M. Dependent claims 5recites the reciprocal relationship between independent claim 12 is drawn to an appara-10 further limit claims 11 or 12. one or two head pairs.

The Board upheld the final rejection of claims 5 and 7-12 under 35 U.S.C. § 103 as being unpatentable over U.S. Patent 4,757,392 to Awamoto in view of Driessen et al. An Experimental Digital Video Recording System, CE-32 I.E.E.E. Transactions on Consumer Electronics 3, Aug. 1986, at 362-70. The Board also upheld the final rejection of claim 6 as being unpatentable over Awanote and Driessen in view of U.S. Patent 4.542,417 to Ohta.

DISCUSSION

determination of obviousness. In re De Blauwe, 736 F.2d 699, 703, 222 USPQ 191, inquiries, such as the scope and content of the prior art, differences between the prior art and the claimed invention, and level of ordinary skill in the art are reviewed for clear error. See In re Caveney, 761 F.2d 671, 674, 226 USPQ 1, 3 (Fed. Cir. 1985). We review de novo the Board's ultimate 195 (Fed. Cir. 1984). Underlying factual

rejection is improper and will be overturned. In re Fine, 837 F.2d 1071, 1074, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988). teachings from the prior art itself would appear to have suggested the claimed subject ing In re Rinehart, 531 F.2d 1048, 1051, 189 USPQ 143, 147 (CCPA 1976)). If the examiner fails to establish a prima facie case, the presenting a prima facie case of obviousness. In re Octiker, 977 F.2d 1443, 1445, 24 USPQ2d 1443, 1444 (Fed. Cir. 1992), Only shift to the applicant. Id. "A prima facie case of obviousness is established when the matter to a person of ordinary skill in the art." In re Bell, 991 F.2d 781, 782, 26 In rejecting claims under 35 U.S.C. § 103, the examiner bears the initial burden of if that burden is met, does the burden of coming forward with evidence or argument USPQ2d 1529, 1531 (Fed. Cir. 1993) (quot

heads mounted on a rotary drum "of any of a well known video tape loading mechanism such that [the heads] follow parallel tracks skewed relative to the length of video tape." Driessen discloses a recording system using expansion. Further, Awamoto uses two video two pairs of heads mounted on piezo-ceramic Awamoto, the primary reference, discloses a signal in a manner inverse to that of the time rejected under 35 U.S.C. § 103 as being signal processing circuit for a video recording and reproducing apparatus. Awamoto specifically discloses the time expansion of an input signal by a factor of two and the corresponding time compression of an output except claim 6 stand obvious over Awamoto in view of Driessen. actuators.

sion of two disclosed [in] Awamoto when a wrapping angle of 360°, one pair of heads and no non-recording intervals are assumed." The Board further asserted that the compression and the three variables, was shown by Awamoto. The Board also astween time expansion/compression and the three variables a, n, and M is "the mere discovery of a relationship that is applicable to [a] prior art apparatus[, and] does not in affirming the rejection, the Board first assumed that the claim limitation at issue, the relationship between time expansion/somehow "inherent" in the prior art as sumed specific values for the claimed variables in order to assert that Awamoto's device sion relationship is satisfied for the expangive rise to a patentable invention." Thus, The Board concluded that the subject matter of the claims would have been obvious over Awamoto in view of Driessen, stating that "the time expansion or time compresrecognition of the claimed relationship besatisfies the claimed relationship.

record carrier. Nor does Awamoto discuss [1] Rijckaert argues that the examiner has ness and that the examiner's assumptions do not constitute the disclosure of prior art. We ping angle of the record carrier around the nead drum or the number of times that a record carrier does not record a signal on the the claimed relationship of the three variaagree. Awamoto does not disclose the wraphead pair which comes in contact with the not established a prima facie case of obviousThe claims stand or fall together since no separate argument for patentability has been made for each claim.

known. Obviousness cannot be predicated on what is unknown." In re Spormann, 363 F.2d 444, 448, 150 USPO 449, 452 (CCPA 1966). Such a retrospective view of inherinherency.]" In re Oelrich, 666 F.2d 578# 581-82, 212 USPQ 323, 326 (CCPA 1981) (citations omitted) (emphasis added). "That which may be inherent is not necessarily ency is not a substitute for some teaching or optimal condition disclosed by Awamoto, ex-plicitly or implicitly. "The mere fact that a moto. Nor are the means to achieve this circumstances is not sufficient [to establish in the recording art, the exact matching of condition, and that this condition would be While the condition described may be an optimal one, it is not "inherent" in Awacertain thing may result from a given set of signal time to recording time is an optimal met by fulfilling the claimed relationship. Awamoto does not describe the use of time

the time expansion/compression and the three variables recited in the claims from was only relied upon to support the idea that other compression factors are used in the prior art. The relationship between proper for the reasons set forth above with which claim 6 depends, which is absent in the combination of Awamoto and Driessen, is not supplied by Ohta. Thus, we agree that the rejection of claim 6 under § 103 is imsuggestion supporting an obviousness rejection. See In re Newell, 891 F.2d 899, 901, 13 USPQ2d 1248, 1250 (Fed. Cir. 1989).
Rijckaert also argues that the rejection of dependent claim 6 as being obvious over video recorder using a time compression fac-tor of 3/5 (a signal of time period 51/4 is so that a signal is recorded completely during the time period that it takes the recording head to scan the magnetic tape. Regarding the Ohta patent, the examiner stated, "Ohta Awamoto and Driessen in view of Ohta is compensating for signal loss in a single-head compressed into a track of time period 3t/4) improper. Ohta discloses an apparatus for

obviousness does not arise until a prima facie case has been established. In the case before aert's arguments regarding the § 103 rejections, the burden to rebut a rejection of While the Commissioner criticizes Rijckrespect to the other claims.

The decision of the United States Patent and Trademark Office Board of Patent Ap-

render obvious the claimed invention, either relied upon does not disclose, suggest, or only to teach the provision of a pair of write beads having a mechanically rigid coupling to each other and does not remedy the defisen, the secondary reference, is relied upon Thus, the prior art bles to time expansion/compression.3 Driesciencies of Awamoto.

individually or when combined.3

suggestion in the prior art, it must indicate where such a teaching or suggestion appears While the court appreciates the Commissioner's thorough explanation of the claimed relationship in his brief, the Commissioner's tionship is well known in the art nor does it suggest the claimed relationship. See In re Yates, 663 F.2d 1054, 211 USPQ 1149, 1151 (CCPA 1981) (when the PTO asserts that there is an explicit or implicit teaching or The Commissioner's assertion "that the [analysis discussed in his brief] and Awamoto demonstrate that the relationship was, brief is not prior art. The prior art is Awamoto, and it does not indicate that the relatime expansion or time compression. Rather, Awamoto is concerned primarily with processing a high-quality broadcast television signal for use in conventional video machinin fact, well known in the art" is unavailing. expansion and compression as a means of optimally filling tracks, much less suggest that the three variables of the claims are even a factor in determining the amount of ery, and with compensating for errors introduced to such a signal by a transfer circuit. in the reference).

To support the Board's affirmance of the rejection, the Commissioner points out that

Awamoto: however, those limitations were not argued before the Board or this court. Thus, we tions recited in claims 11 and 12 are not found in ¹The Commissioner admits that other limita-

argue octors in Commissioner that those limitations are not at issue here.

The Board also noted that the claims are not "specific" in that they claim the three variables as a "factor" of the expansion or compression time. The Board stated, "claims 11 and 12 sion time. The Board stated, "claims 11 and 12 sion time. The Board they waitables, how or when one of the two times is selected based on the variables or how each of the two times is related variables or how each of the two times is related to the variables. The Board further stated, "the position implies a possible rejection based upon 35 U.S.C. § 112, this issue is not before us. In any event, the statement that the relationship is "probably satisfied" by the prior art is speculative and therefore does not establish a prima facie relationship is probably satisfied by any prior art video tape recording and reproducing apparatus that otherwise satisfies the remaining requirements of the claims at bar." While the Board's case of unpatentability.

rejection of claim 6: therefore, claim 6 was considered to be affirmed for the reasons stated by the examiner. See 37 C.F.R. § 1.196(a) (1993) 'The Board did not specifically address the

Rasmussen v. The West Inc.

and Interferences affirming the final REVERSED rejection is reversed peals

District Court, N.D. Illinois

Rasmussen v. The West Inc.

No. 92 C 8495

Decided June 29, 1993

Personal jurisdiction PRACTICE 1. Jurisdiction JUDICIAL PROCEDURE

(8405.11)

from Illinois, and included copyright notice which warned defendant that infringement minimum contacts with state sufficient to sonal jurisdiction, in copyright infringement action, over Arizona corporation that does no fully and knowingly initiated two purchases of allegedly infringed needlepoint design from Illinois resident, since design was created and copyrighted by that resident, sent could subject it to suit in Illinois, since complaint steins directly from defendant's purchases, and since defendant therefore had Federal district court in Illinois has perbusiness in Illinois, since defendant purposesatisfy requirements for due process.

Jurisdiction — Venue; transfer of action — In general (§405.1901)

incur greater hardship litigating in Illinois than plaintiff would suffer pursuing claim in Arizona, since Illinois is more convenient forum for two of three presently-known wit-Transfer of copyright infringement action from Ulinois to Arizona is not warranted, since there is no evidence that defendant will favor either forum, in that there is no related litigation pending in Arizona nor any comnesses, and since interests of justice do not plex state law issue to be decided

The West Inc., for copyright infringement, On defendant's motions to dismiss for lack of personal jurisdiction, or to transfer action to Action by Susan Rae Rasmussen against Arizona. Both motions denied.

liams, of Lee, Mann, Smith, McWilliams, Sweeney & Ohlson, Chicago, Ill., for David C. Brezina and Dennis M. McWil-

Fric L. Samore, of Querrey & Harrow, Chicago, for defendant plaintiff

jurisdiction and its motion, in the alternative, to transfer this action to Arizona. For the following reasons, we deny both of defenmussen") brings this copyright infringement action against defendant The West, Inc. ("West"). Presently before us is West's motion to dismiss this action for lack of personal Plaintisf Susan Rae Rasmussen ("Ras-

I. Factual Background 1

lishing, and selling needlepoint patterns. In March, 1990, Rasmussen received a copyright for her "Fleur Du Quad" needlepoint earns her income, in part, by designing, pub-Plaintiff Rasmussen, an Illinois resident, is the sole proprietor of Sular Designs, and design, chart, and instructions.

AND

business in this state, does not own or rent any property here, or list a local phone num-ber. In short, West conducts all of its busiproidery shop, selling supplies and giving lessons to its customers. All of West's profits are donated to needy women and children. The corporation does not maintain an office in Illinois, nor does it have any employees, officers, directors, or other representatives in Illinois. West does not advertise or solicit West is a non-profit Arizona corporation. With two paid employees and a group of volunteers, West runs a needlepoint and emness within Arizona.

orders and payment in Illinois and sent the patterns to West in Arizona. Both times, the patterns contained a Notice of Copyright. Rasmussen alleges that one of West's inter alia, several copies of the Fleur Du Quad pattern from Rasmussen. One year later in September, 1992, West again mail-ordered the copyrighted pattern from Rasmussen. Both times, Rasmussen received the In September, 1991, West mail-ordered.

agents photocopied the Fleur Du Quad design and instructions and sold at least two of Peggy Wolfe ("Wolfe"), a resident of Green Bay. Wisconsin, purportedly witnessed a West representative selling copies of the Fleur Du Quad design in a park in Tucson. At the time, Wolfe was with a group of five other needlepointers working together on the photocopies in violation of the copyright. patterns in the park.

A. Motion to Dismiss

West seeks to dismiss this suit, arguing that its contacts with Illinois are too insub-

'For the purposes of this motion, we will take the complaint's well-pleaded allegations at true

stantial to support jurisdiction under Illinois' of long-term statute. We disagree.

This Court only has jurisdiction over a non-resident defendant if Illinois courts would have personal jurisdiction. FMC n Corp. v. Varonos, 892 F.2d 1308 (7th Cir. 1990); Store Decor Division of JAS Int'l., Inc. v. Stylex Worldwide Industries, Ltd., 767 F. Supp. 181 [20 USPQ2d 1536] (N.D. illinois court may exercise jurisdiction over a defendant who is either doing business." in the state, or who is subject to Illinois, long arm statute. E.J. McGowan & Assoc., Inc. v. Biotechnologies, Inc., 736 F. Supp. 808, 809 [15 USPQ2d 1145] (N.D. III. 1990). Because West is clearly not "doing business" in Illinois, we turn our attention to the state's long arm statute.

court there, due process is salisfied. See Burger King Corp. v. Rudzewicz, 471 U.S. 462, 474, 105 S. Ct. 2174, 2183, 85 L.Ed.2d 528 (1985); World-Wide Volkswagen Corp. v. Woodson, 444 U.S. 286, 297, 100 S. Ct. 559, 567, 62 L.Ed.2d 490 (1980). tions of fair play and substantial justice. International Shoe Co. v. Washington, 326 U.S. 310, 316, 66 S. Ct. 154, 158, 90 L.Ed. 95 (1945) (quoting Milliken v. Meyer, 311 U.S. 457, 463, 61 S. Ct. 339, 343, 85 L.Ed. 278 (1941). Where a defendant, by his consatisfied, jurisdiction is proper. In order to comport with federal due process, a defendant must have sufficient 'minimum contacts' with the forum state, such that suit in could reasonably anticipate being haled into duct, has purposefully availed himself of the benefits of conducting business in a state and long arm statute is coextensive with the limits of due process. III. Rev. Stat. ch. 110, ¶ 2-209(c); FMC, 892 F.2d at 1310 n.5. That is, if the due process requirements of the Illinois and United States constitutions are Since its amendment in 1989, the Illinois

purposefully and knowingly initiated the purchase of a needlepoint design from an Illinois resident. The design was created and [1] We conclude that West's conduct with respect to Illinois satisfies due process. West

citing Cook Associates, Inc. v. Colonial Broach & Machine Co., 14 III. App. 3d 965, 304 N E.2d 27, III. Dec. First Dist. 1973). We thus deny West's motion to from that purchase, suffices to create the minimum contacts required for due process.' See Empress International Ltd. v. Riverside Seafoods, Inc., 112 III. App. 3d 149, 154-55, 445 N.E.2d 371, 67 III. Dec. 891 (First Dist. 1983) (court held that defendant's placement of two orders with an Illinois supplier was sufficient to create the infringed the copyright in Arizona. West's intentional purchase, on two separate occasions, of a product in Illinois, combined with the fact that the complaint stems directly minimum contacts required for jurisdiction) copyright infringement could subject it to suit in Illinois. Despite this, West allegedly Copyright, apprising West of the attendant restrictions and obligations which accompanied the item and put West on notice that copyrighted by an Illinois resident, was sent from Illinois, and contained a Notice of dismiss for lack of personal jurisdiction.

B. Motion to Transfer

28 U.S.C. § 1404(a) governs change of venue and provides that

trict court may transfer any civil action to any other district or division where it [f]or the convenience of the parties and witnesses, in the interest of justice, a dismight have been brought.

justice. Hotel Constructors, Inc. v. Seagrave Corp., 543 F. Supp. 1048, 1050 (N.D. III. 1982). Since we have jurisdiction in this priety of jurisdiction in Arizona, the sole establish that venue is proper in both the transferor and transferee forums, and that parties and witnesses and is in the interest of case, and the parties do not contest the proremaining issue is whether transfer to Arizona enhances the convenience of those conthe transfer serves the convenience of the In order to satisfy § 1404(a), a movant must cerned and promotes justice.

(i) Convenience of the Parties

West strenuously argues that adjudication of this matter in Illinois will financially dev-

³ Because Illinois courts generally look to the federal due process clause for guidance when interpreting the due process clause of the Illinois Constitution, we find that the requirements of the Illinois Constitution are similarly met. See Rollino, 152 Ill. Dec. at 39R. Mark 791 F. Sunn at 1) In Rollins v. Ellwood. 141 III.2d 244, 565 N.E.2d 1302, 152 III. Dec. 384 (1990), the IIIinois Supreme Court suggested that in determining whether jurisdiction over a non-resident defendant was fair, a court must ensure that the due process guarantees in both the state and federal constitutions are satisfied. See also Mors v. Williams. 791 F. Supp. 739, 741 (N.D. III. 1992) (court read Rollins to require consideration of both state and federal due process in

thinnest rock formation to be

150 USPQ

150 USPQ

ing that Athy suggests that the receivers "may be spaced on either side of the transmitter" and also that a single receiver may be used, a logical interpretation of the suggestion to use a greater number of receivers than two might be that either one or two receivers are disposed on opposite sides of the transmitter from the two provided the transmitter from the two provided

noss rejection, neither reference discloses a specific embodiment employing all the features of the claimed method. All of the embodiments specifically disclosed in Athy, described by

in the systems specifically described.
The disclosure certainly does not provide a clear teaching of using a third receiver in the position required by the claims nor does it teach the spac-

ing required thereby.

receiver-to-receiver intervals.

[1] In summary, we think the examiner and board erred in finding the appealed claims obvious over the teachings of Athy and Wyckoff. The rejection is based on an improper piece-jection is based on an improper piecemal reconstruction of the prior art made in light of appellants' disclosure and not taught or made obvious by the reference disclosures. See In ous by the reference disclosures. See In Rothermel, 47 CCPA 866, 276 F.2d 393, 125 USPQ 328.

receiver-to-receiver measurements are the most accurate * * *." However, no clear disclosure to the latter effect has been pointed out in the references. The solicitor, going into more detail than the examiner and board, urges that Achy's suggestion of using a greater number of receivers than two would lead to modification of the patentee's one transmitter-two receiver entee's one transmitter-two receiver system by the addition of a third re-ceiver for the purpose of making two simultaneous receiver-to-receiver measurements because "It is known that fically disclosed in Athy, described by the solicitor in oral argument as the the solicitor in oral argument as the the solicitor in oral argument as the transmitter along with two receivers the said thus provide but one receivers the receiver measuring interval. The exreminer and board rely on the suggestion in our first quotation from Athy right with may in some cases be desirable to employ a greater number of resciptors [receivers] than two, as teaching the use of three receivers. As to the requirement for the long and to the requirement for the long and the excerpt from Athy quoted hereinshove which discusses the effect of different spacing of the transmitter-to-receiver intervents.

ceiver system specifically disclosed. On this latter point, reliance is also placed on Wyckoff's disclosure that spacing between the detectors and the source is varied depending upon the terrain and the desired degree of resolving power, with "2 to 50 feet" separation being

used in practice.

with

vals in the one transmitter and two re-

receiver-to-receiver measurements represent characteristics of undisturbed or virgin strata. That disclosure teaches merely that the shorter spacing be used to obtain information as to disturbed structure near the bore hole. It does not relate to detecting thin earth formations or suggest modification of The quotation from Athy regarding spacing of the transmitter and receivers, set out hereinabove, suggests that placing the transmitter closer to the nearest receiver than the distance between the two receivers permits obtaining information regarding variations ing information regarding variations "contributed by structure near the borehole" through the transmitter-to-receiver measurements while the longer Athy's one transmitter-two receiver system to measure a first long receiver-to-receiver interval and a second receiver-to-receiver interval shorter than receiver-to-receiver measuring intervals and are relatively spaced in a manner different from that of the specific prior art disclosures. Although the solicitor undertakes to overcome some of that deficiency, we are not satisfied that the record demarks of the rec Some difficulty arises from the failure of the examiner and board to point out why they think the disclosure relied on would make it obvious to modify specific disclosures in the prior art of one transmitter-two receiver processes to provide appellants' process using three receivers which provide two onstrates that the required modifica-tion, or selection of features, would have been obvious to a person of ordi-nary skill in the art.

stree solicitor apparently bases his statement that it is known that the restatements are the ceiver-to-receiver measurements are the most" accurate on certain material in appelant's brief which he considers an acknowledgement of that proposition. However, that material, which states that systems using a pair of receiver in conjunction with a transmitter to provide a junction with a transmitter to provide a ceiver-to-receiver measurement cover-to-receiver measurement, does not satisfy us that appelants have admitted the broad proposition the solicitor urges.

disclosure that the spacing between the a disclosure that the spacing between the alectors and source is varied depending upon the terrain and the ability to the reference to a separation of two to the fifty feet. There is no suggestion there, however, that two intervals of different spacing be measured in connection with a single traverse of a bore hole, a much less that both measurements be of in Wyckoff was cited primarily for its

The decision of the board is reversed.

Court of Customs and Patent Appeals 53 CCPA 1375

Decided July 21, 1966 In re SPORMANN AND HEINKE Appl. No. 7599

PATENTS

Pleading and practice in Patent Office—Rejections (§ 54.7) 1. Evidence - Judicial notice (§ 36.20)

Although Board apparently took juticial notice of "spray drying" and although court has heard of spray drying ing, it is not a technique of which court would feel free to take judicial notice; if Patent Office wishes to rely on what "those familiar with spray drying like would know," it must produce some conference showing what such knowled discovered to the spray drying his preference showing what such knowled edge consists of.

2. Patentability — Invention — In general (§ 51.501)

obviousness are different questions; that which may be inherent is not necessarily known; obviousness cannot be predicated on what is unknown. Inherency of an advantage and its

Claims must be interpreted in light claims — By specification and drawings — In general (§ 22.251) 3. Construction of specification of specification.

Spormann and Heinke, Production Solid Alkali Sulfites, claims 7 and 8 application allowed. Particular patents-Alkali Sulfites

Application for patent of Walter Spormann and Joachim Heinke, Serial No. 56,353, filed Sept. 16, 1960; Patent Office Group 110. From decision rejecting claims 7 and 8, applicants appeal. Reversed. Appeal from Board of Appeals of the Patent Office.

ERBERT B. KEIL and MATTHEW C. THOMPSON, both of Chicago, Ill., for HERBERT B.

appellants.
CLARENCE W. MOORE (GEORGE C. ROE-MING of counsel) for Commissioner of Patents.

Before Rich, Acting Chief Judge, Marrin, Smith, and Almond, Associate Judges, and Kirkpatrick, Judge.*

RICH, Acting Chief Judge.

This appeal is from the unanimous decision of the Patent Office Board of Appeals, 1 petition for reconsideration denied, affirming the examiner's rejection of process claims 7 and 8 in application serial No. 56,353, filed September 16, 1960, for "Production of Solid Alkali Sulfites." No claim has been allowed.

bonates by spraying the latter, in aqueous solution, into a dry gas containing sulfur dioxide, the temperature and humidity of the gas being such as and humidity of the gas being such as to immediately vaporize the water to the end that very little sulfate is produced. The sulfate results from oxidation of the sulfite but this apparently does not occur to any great extent if the sulfite is dry immediately upon its production. Sulfate is particularly likely to form when the treating gas In essence, the invention is a process of producing alkali metal sulfites from alkali metal hydroxides and/or carcontains a large amount of oxygen do waste gases which it is desired use for economic reasons.

Claim 7 reads (breakdown ours):

7. A process for the production of

K(ST) become equal if the formation is thick enough to accommodate both measurement intervals. As the measurement unit moves past the formation, the quantities K(ST) and LT increase in sequence. Anomalous measurements due sequence. Anomalous measurements due to short borehole irregularities, the off-centering of the measuring devices within the borehole are made obvious by the absence of the above nathern.

cases be desirable to employ more than two detectors does not disclose the position of any additional receivers. Not-

In the first place, the mere suggestion in Athy that it may in some

[•] United States Senior Judge for the Eastern District of Pennsylvania, designated to participate in place of Chief Judge Worley, pursuant to provisions of Studge Worley, pursuant 29, United States Code.

¹ Consisting of Examiner-in-Chief Dunconbe and Acting Examiners-in-Chief Behrens and Wyman, the latter withing the opinion.

150 USPQ

solid alkali metal sulfite which com-

passing a finely dispersed aqueous solution of an alkali metal compound selected from the group consisting of sodium hydroxide, sodium carbonate, sodium bicarbonate, potassium hydroxide, potassium carbonate, potassium bicarbonate and mixtures there

of, into a substantially dry gas con-taining sulfur dioxide,

maintaining the temperature of said dry gas at a level such that the water introduced with the solution and formed by the reaction of the alkali metal and the sulfur dithe alkali metal and the sulfur divoxide is immediately vaporized,

and thereafter separating from the and thereafter separating from the gas the solid alkali metal suffite which is formed by the reaction of the suffur dioxide and the alkali metal compound.

Claim 8 differs from claim 7 in two respects. (1) The finely dispersed solution of alkali metal compound is passed "into an upwardly directed stream" of the dry gas containing sulfur dioxide and (2) the temperature of the dry gas is maintained "between about 20 and about 150°C."

A typical reaction, producing sodium sulfite from sodium hydroxide and sulfur dioxide, is

2 NaOH + $SO^2 \rightarrow Na^2SO_3 + H^2O$

According to appellants' brief (emphasis ours):

reacted with annual meeter of carbonates to produce sodium sulfite. Ordinarily, a solution of sodium hydroxide or the like is interium hydroxide or the like is interiumly of drawback to the formed sulfacture processes. The formed sulfite tends to oxidize, especially in the fite tends to exidize to form sodium sulfate (NacSO.). To form sodium sulfate (NacSO.). To prevent oxidation of the sulfite it prevent oxidation of the sulfite it sible to use roaster or waste gases containing sulfur dioxide which are formed in great quantities during the production of sulfuric acid. The protective measure described above is atmospheric oxygen by using a concentrated sulfur dioxide gas containing relatively minor amounts of free oxygen or by carrying out the reac-tion between the sulfur dioxide and the alkali metal hydroxide in an inert atmosphere. The need for conatmosphere. The need for con-centrated SO, gases made it impos-It has long been known, of course, that sulfur dioxide (SO2) can be reacted with alkali metal hydroxides

difficult to carry out especially in a commercial process. It has also been suggested that the oxidation of alsubstances to the solutions which are capable of binding heavy metal ions. In such processes, however, the substances which are added to bind the metal ions become impurities which contaminate the alkali sulfite. A method was found by appellantapplicants whereby alkali sulfite can applicants whereby alkali sulfite can be obtained from alkali hydroxide or alkali carbonate and sulfur dioxide without the concurrent formation of substantial amounts of alkali substantial amounts of alkali sulfite. The process is carried out successfully without the addition of macessfully without the addition of macessfully without the addition of macessfully without the addition of macesimals which contaminate the sulfite.

oaygen which is present in the gas.
In the subject process, unlike the prior art processes, it is possible to use waste gases as a source of SO, which gases contain large quantities of oxygen (as much as 50 parts of oxygen per part of SOs).

In the process, therefore, a finely divided liquid and a gas are passed terials which contaminate the statical in the process, a finely dispersed aqueous solution of an alkali metal aqueous solution of an alkali metal aqueous solution of an alkali metal at is passed (sprayed) into a substantially dry gas containing subtructure and relative humidity of the gas are maintained at such levels that the water introduced with the solution and formed by the reaction of the alkali metal and the sulfur dioxide is immediately vaporized. Thereafter, solid alkali metal sulfite is separated from the gas. The sulfite is formed instantly in the dry form and no longer is exposed to the action of longer is exposed to the action of

into the reaction zone and solid sod-inm sulfite particles and water vapor leave the reaction vessel. The exact point wherein the transition from liquid to solid and vapor occurs is not precisely known. What is known is that the water must be vaporized in the reaction zone leaving only vapor and solid alkali metal sulfite.

Much of this discussion also appears in appellants' specification.

The examiner finally rejected the claims as unpatentable "over any of" the following patents:

Haywood 2,210,405 Aug. 6, 1940 Aydelotte et al. 1,982,241 Nov. 27, 1934 Strickler 1,023,179 Apr. 16, 1912 Friedrich et al. 1,091,429 1914

In his Answer, the examiner also said,

"Appellants' process is considered to nothing more than the application of this teaching of Friedrich et al. to a spray process such as is described in Aydelotte et al. Such a combination of Aydelotte et al. Such a combination of the board said: "As recognized by The board said: "As recognized by the examiner, the rejection on Strickler appears to be cumulative but we will suppars to be cumulative but we will sustain the rejection as being one on Friedrich et al. in view of Aydelotte et in Friedrich et al. in view of Aydelotte et in Friedrich et al.

throughout the entire process, the throughout the entire process, the amount of which "is so calculated in each individual case, that the heat of the reaction occurring on the absorption of the sulfurous acid gas [SO₂] you will partially or completely evaporate the water, so that the finished product the required degree of moisture or the required degree of moisture or the required degree of moisture is arranged to the sulfure of arranged the sulfured to the sulfure of the required degree of moisture is a dryness. The amount of moisture is a product will be free flowing yet dust product will be free flowing yet dusting product will be free flowing yet dusting product will be free flowing the distinguish the then known (1910) "wet" with, the then known (1910) "wet" power, and related expenses necessary for separation of product from solutransported through the vessel. Sulfur dioxide gas is passed in countercurrent flow through the material within the flow through the material within the drum. The solid, crushed raw material contains "a definite quantity of chemically combined or hygroscopic water." at. or maywovu.

Friedrich et al. disclose a process for process for making sodium sulfites wherein a raw material such as sodium hydroxide or sodium carbonate is passed in a solid, sodium carbonate is passed in a solid, poudered form through a horizontal rotating drum having radial plates or helical screw threads which cause the filesial screw threads. solid raw material to be turned

for reducing the sodium hydroxide (caustic soda) content of solutions (caustic soda) content of solutions (caustic soda) content of sodium hydroxide and potassium hydroxide and potassium hydroxide (caustic potash). The patentees' objective is to produce caustic soda-caustic tive is to produce caustic soda-caustic didice, they use in making synthetic indigo, the sodium sulfite being a tic indigo, the sodium sulfite being a tic indigo, the sodium sulfite being it tion, is treated with waste gas containing tion, is treated with waste gas containing it sulfur dioxide, "either by bubbling the sulfur dioxide, "either by bubbling the syraying of the liquid, countercurrent gas through the liquid, countercurrent other means until a test portion when other means until a test portion when other means until a test portion when the evaporated to about 50° Bé, cooled the caustic of mixed caustic has been changed is ratio of mixed caustic has been changed is caustic potash." The whole batch of solu-Aydelotte et al. disclose a process for reducing the sodium hydroxide (caustic soda) content of solutions

and cooled to 40°C. whereupon sodium and cooled to 40°C. whereupon sodium sulfite precipitates and is separated by sulfite precipitates and is separated by is, of course, still a solution. According to the patentees, the "crude separated sodium sulfite, containing small amounts of potassium sulfite, occluded caustic, and other impurities may, for some purposes, be used without purification, or it may be partly purified by washing, depending on what purpose it is to be used for." tion is then evaporated to about

Haywood discloses a method for proHaywood discloses a method for producing calcium sulfite, especially as
filler for paper, whereby a suspension
of milk of lime, contained in an "abl sorber" tank, is whipped up as a fine
sorber tank, is whipped up as a fine
gas containing from 7% to 20% SO2. The
gas containing from 7% to 20% SO2. The
fite product falls back into the suspension. It is stated that the calcium sulfite suspension can then be pumped
to a paper machine. Alternatively, the
patent states:

If the material is to be shipped, it should first be dewatered to reduce it to a thick paste or a dry powder. However, if it is to be used mear the source of manufacture in a watery suspension, it may be used directly ***.

As to temperatures in the "absorber" where the reaction between liquid and gas occurs, the specification says:

This temperature under ordinary conditions will usually rise to about offer a sulfur burner where SO² is from a sulfur burner where SO² is generated for the process] * * * * may be cooled to a certain extent by water introduced into the tower * * * This, however is not essential and may be dispensed with, if desired. There is no objection to introducing the gases into the absorber at a temperature of between 400° and 550° C. [Emphasis ours.]

Strickler discloses a process for producing sodium sulfites, an object of which is to prevent the formation of sulfates through oxidation, which is appealants' principal object. However, in pellants' principal object. However, in the Strickler process, SO, gas is passed into a suspension of sodium carbonate in a saturated solution of sodium sulfite. A temperature of about 49°C. (120°F.) is disclosed.

Comparing appellants' process with the prior art, clearly the basic chemical reaction embodied in their process is old, as their specification acknowledges. Aydelotte et al. would also suggest to one skilled in the art bringing

admittedly-in their refer-he use of a "solution" and

distinguishing

metal reactants.

in naming the alkali metal Haywood is interested in ences to the use of a in naming the alkali m

spraying of a liquid containing caustic soda into a gas containing sulfur dioxide. The issue therefore is: would it be obvious to one of ordinary skill in this art to conduct the old reaction by such spraying under all the conditions set out in the claims and obtain appellants' results, i.e., would the invention as a whole have been obvious?

The board said:

Taking cognizance of the fact that spray drying is an old expedient for obtaining a solute in dry form, we fail to see that it is unobvious to modify the method taught by Friedrich et al. so that a solution of solum carbonate, for instance, is passed in fine droplet form through the gaseous current comprising sulter dioxide instead of the finely powdered carbonate of Friedrich, et al., particularly as Aydelotte et al. and Haywood do show, at least, that it is old to spray an alkaline hydroxide or carbonate solution through sulfur dioxide gas to obtain the corresponding sulfite.

responding suittue.
Both appellants and Friedrich et
al. obtain a dry sulfite and in such
a simultaneous drying and chemical
reaction process it is thought to be
a mere difference in degree whether
the water is present in such an
amount as to dissolve the aerbonate
or is merely present as adhering
water (Friedrich et al., page 2, lines
42 to 49). We note that Friedrich et
al. only require that a sufficient
amount of water be present to perniit the chemical reaction to present of place. Those familiar with spray drying know that dry products can be obtained even though a large amount of water may be present with the material to be dried.

Appellant urges that his product does not have much sulfate as a contaminant. Though not mentioned by Friedrich et al., this seems to be merely an additional characteristic inherent in their process, In re Arnold et al., 50 CCPA 1166, 1968 C.D. 400, 794 O.G. 502, 315 F.2d 951, 137 USFQ 330. [Emphasis ours.]

both disclose spraying of some sort, neither spray dries. While we have heard of spray drying, it is not a technique of which we would feel free to take judicial notice. We are of the [1] The board's reference to "spray drying" appears to have been injected as something of which it was taking judicial notice, without having been mentioned in any reference of record. While Aydelotte et al. and Haywood hoth disclose spraving of some sort,

to rely on what "Those familiar with to rely on what "Those familiar with spray drying would know," it must produce some reference showing what such knowledge consists of. So far as we can see, appellants of spray and their sprayed solution is dried. We are tunnable to find, however, any indiation in the references that such a step would have the effect which appellants sought and found, namely, a reduction of the undesirable oxidation of sulfite to sulfate in an old reaction tending to require large amounts of oxygen.

hygroscopic water; appellants react hygroscopic water; appellants react sprayed solution and gas. As we pointed out in In re Adams, 53 CCPA 996, 356 out in In re Adams, 53 CCPA 996, 356 out in In re Adams, 53 CCPA 996, 356 out in Advantage and its obviousness are entirely different questions. That which may be inherent is not necessarily known. Obviousness cannot be predicated on what is unknown.

The result of appellants' process is said to be a product low in sulfate content, notwithstanding the use of waste gas containing relatively large mounts of oxygen, an asserted advantage not challenged by the Patent Office. So far as the disclosures of the references are concerned, we have found nothing to suggest it. that the minimizing of sulfate production would be inherent in the process of Friedrich et al. However, this is no support for a rejection for various reasons. Friedrich et al. make no mention of it, as the board conceded. Their process is not appellants' process. It is a reaction between solid, powdered material and gas, the only water present being chemically combined water and

Strickler appears to be the only reference which deals with the problem of preventing the formation of sulfate during sulfite production but appears to solve the problem only by avoiding its cause. Sulfur dioxide gas is passed through a solution rather than waste through a solution rather than waste can appear of the Appellants' brief states, without refutation by the Patent Office, that "It is well known, of course, that this [Strickler] process would only be successful where atmospheric oxygen is excluded and where heavy metal ions are not present." The Patent Office treats this reference as "cumulative" and places little reliance on it.

short brief to a discussion of Havwood's process which is different in several respects. The argument attempts to show how the claims can almost be The solicitor devotes most of his

tion, of time (UaU) or immensione view carbonate, CaCO3, brought into culture at all is made to dry the product with a gas containing SO₂. No contact with a gas containing SO₂. No contact at all is made to dry the product or the gas. In fact, the conditions a very that as fast as the sulfitte is a restly where came the raw material. The gas where the raw material. The gas where came the raw material. The gas where the raw material in the both which is a vessel with liquid in the both to make a seasel with liquid in the both which is an agitator which revolves the pass is exhausted in the liquid and splashes it upwardly a in the liquid and splashes it upwardly a hinter gas. Since the gas is exhausted by the gas. Since the gas is exhausted by the gas. Since the gas is exhausted have us treat this as an "upwardly diphave us treat this as an "upwardly diphave us treat this as an "upwardly diphave us treat this as an "upwardly fine of the specification. Beep in the alight of the specification. Beep in the light of the specification. Beep in the light of the specification. Beep in the light of the specification obvious attempt is made to drag from obvious attempt is made to drag from obvious attempt is made to drag from the titations without regard to the true imported that if Haywood's gas is at 400° or that if the water would not necessarily about 70° C. This would not necessarily about 70° C. This would not necessarily about 70° C. This would not introducting the gases into the absorber at an ing the gase into the absorber at sing the gase into the absorber at an ing the gase into the about 70° C. calcium sulfite as a paper filler. It is not an alkali metal compound orthers. therefore outside the claims. It is pro-duced from a suspension, not a solu-

tion, of lime (CaO) or limestone

Our view is that one faced with the problem of how to use oxygen-control is training waste gases in the production of sulfate would receive no production from the references to spray suggestion from the references to spray a solution of the alkali metal compound into the gas stream under such conditions of temperature and relative conditions of temperature and relative claimed invention and in our opinion its basic underlying concept is not to be found in the prior art of record. humidity as to cause all water present to be immediately vaporized. This is the lution with gas.

The rejection of claims 7 and

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401)

in the absorbers is a decidely wet proc-ess having nothing to do with dry-ing. What goes into them is aqueous suspension and that is also what comes

2. Title — Licenses — Construction (§ 66.407) [3] Finally, the solicitor argues on the basis of Haywood's optional and later dehydration of his sulfite suspen-

Court of Claims of the United States MINE SAFETY APPLIANCES COMPANY

1. Title Licenses - In general (8 66.-

One having license under patent has complete defense to charge of infringement when patent or invention is used in accordance with license. lative and would depend on how much lative and would depend on how much lative and would depend on how fast, least flows into the absorber how fast, low cold the suspension is, contact they contact the between the mist thrown up by the lative between the gas at whatever temagitator and the gas at whatever temagitator and the gas at whatever temperature it may have reached, heat loss perature it may have reached, heat loss from the absorber, etc. What goes on contact the state of th

Contract provision, in granting to Government a license to practice "each invention, improvement or discovery con-